GENERAL CATALOG 117

KLEIN TOOLS

AND SAFETY EQUIPMENT

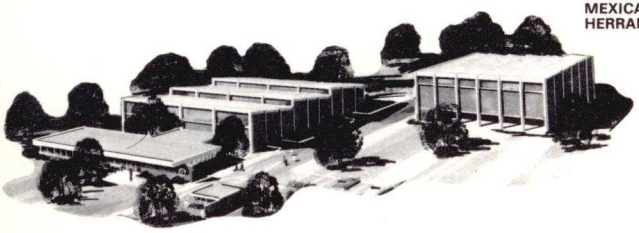
MATHIAS KLEIN & SONS, INC.
CHICAGO, ILLINOIS 60645

KLEIN TOOLS®

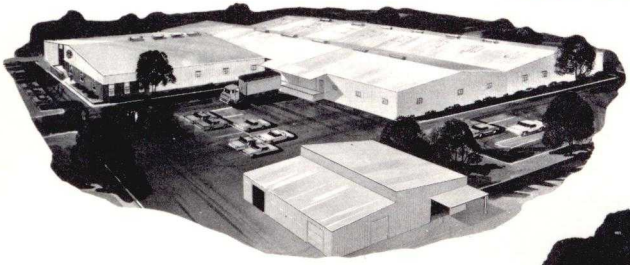
Over a century of experience manufacturing tools of professional quality for professional workers.

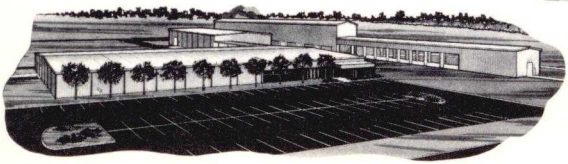
- LINEMEN
- ELECTRICIANS
- GENERAL INDUSTRY
- HEATING, AIR CONDITIONING, PIPIN
- CONSTRUCTION WORKERS
- ELECTRONICS INDUSTRY

MEXICAN PLANT
HERRAMIENTAS KLEIN, S.A. De C.V.



KLEIN-BUHRKE PLANT
FORT SMITH, ARKANSAS





FORGING PLANT
MATHIAS KLEIN & SONS, INC.
MORAN, KANSAS

For over 100 years Klein has been the accepted leader in the design and manufacturing of tools for the professional workman. Starting when the first communication lines were strung, Klein has grown up with the electrical industry, pioneering in the many developments that have aided in making the electrical field, both power and communication, the great industries they are today.

As the need for high quality tools and equipment expanded with the tremendous growth of the industrial field, Klein grew along with it and today offers a broad line of high quality hand tools specially designed for the professional.

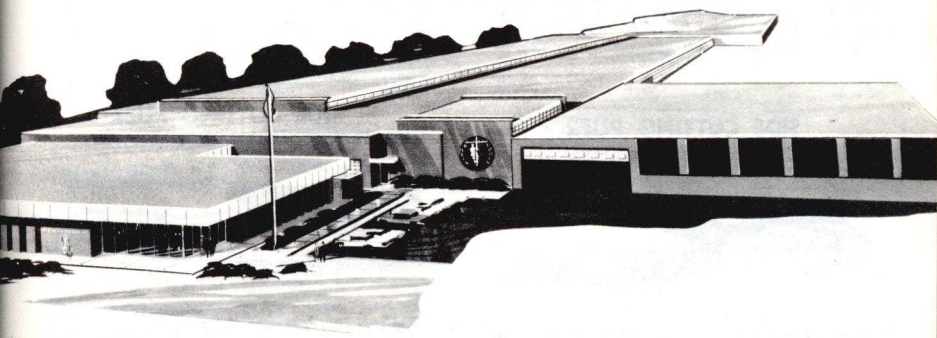
Safety has always been of paramount concern in an industry that, despite every possible precaution, still presents hazards, and at Klein safety is given top priority in design and manufacturing.

In 1968, to meet the increasing needs for an expanded line of safety equipment to serve all industries, Klein acquired the R.H. Buhrke Company who had won an enviable reputation as a leader in the safety field dating back to 1877.

In 1974, to provide additional manufacturing capacity to meet the greatly increased demand for Klein Tools, a new forging plant was erected in Moran, Kansas. By utilizing the latest developments in equipment and production techniques in this newest facility, Klein assures the professional tradesman that he will continue to receive tools of the highest quality, at competitive prices.

Mexico and other countries in Latin America also faced the problems that come with expanded industrial production and to serve these countries Klein organized a Mexican subsidiary, Herramientas Klein, and built a plant near Mexico City to produce high quality tools for this market.

Today the complete Klein Line has been expanded to serve the needs for high quality professional tools in the fields of Electricity, Communications, Electronics, Construction, Heating—Plumbing—Air Conditioning, and General Industry.

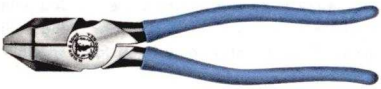


MAIN PLANT
MATHIAS KLEIN & SONS, INC.
CHICAGO, ILLINOIS

MATHIAS KLEIN & SONS, INC.
7200 McCormick Road, Chicago, Illinois 60645
Tel. (312) 588-6820 (312) 677-9500
Telex 72-4431

HIGH LEVERAGE PLIER

U. S. Patent No. 2,746,145
Can. No. 532,760



Handles blue plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D213-9	9 1/4	1 19/32	1 5/16	5/8	25/32	13 1/2 lb.
213-9	With plain handles					12 1/2 lb.

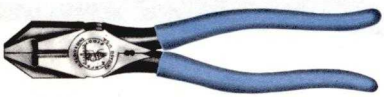
SIDE CUTTING PLIER

Handles blue plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D201-6	6 1/4	1 3/32	29/32	1/2	9/16	5 1/2 lb.
201-6	With plain handles					5 1/4 lb.
D201-7	7 5/16	1 9/32	1 5/32	1/2	5/8	7 1/2 lb.
201-7	With plain handles					7 1/4 lb.
D201-8	8 1/2	1 7/16	1 7/32	5/8	23/32	11 1/2 lb.
201-8	With plain handles					11 1/4 lb.
D201-9	9 1/4	1 19/32	1 5/16	5/8	25/32	13 1/2 lb.
201-9	With plain handles					13 1/4 lb.

SIDE CUTTING PLIER
(WITH SLEEVE TWISTERS)



Sleeve openings for No. 12 NBS and No. 10 B&S (.104)
Handles blue plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D212-8	8 1/2	1 7/16	1 7/32	5/8	23/32	11 1/2 lb.
212-8	With plain handles					11 1/4 lb.

HIGH LEVERAGE PLIER
NE TYPE (STREAMLINED)

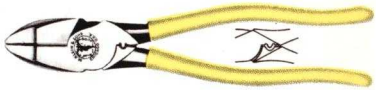
U. S. Patent No. 2,746,145
Can. No. 532,760

Handles blue plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D213-8NE	8 1/2	1 7/16	1 7/32	5/8	23/32	11 1/4 lb.
HD213-8NE	With Hi Dielectric orange handles					11 1/2 lb.
213-8NE	With plain handles					11 lb.
D213-9NE	9 1/4	1 19/32	1 5/16	5/8	25/32	13 1/2 lb.
HD213-9NE	With Hi Dielectric orange handles					13 1/2 lb.
213-9NE	With plain handles					12 1/2 lb.

HIGH LEVERAGE PLIER NE TYPE WITH CRIMPING DIE



Same high leverage design as D213-9 NE but with crimping die at the hinge for crimp connectors. Handles yellow plastic dipped.

Dimensions in Inches*

Cat. No.	A	B	C	D	E	Av. Wt. Doz.
D213-9NE-CR	9 1/4	1 19/32	1 5/16	5/8	25/32	13 1/2 lb.

For Crimping Tool see Page 23

SIDE CUTTING PLIER
NE TYPE (STREAMLINED)

Handles blue plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D201-6NE	6 1/4	1 3/32	29/32	1/2	9/16	5 1/2 lb.
201-6NE	With plain handles					5 1/4 lb.
D201-7NE	7 5/16	1 9/32	1 5/32	1/2	5/8	7 1/2 lb.
201-7NE	With plain handles					7 1/4 lb.
D201-8NE	8 1/2	1 7/16	1 7/32	5/8	23/32	11 1/2 lb.
201-8NE	With plain handles					11 1/4 lb.
HD201-8NE	With Hi Dielectric orange handles					11 3/4 lb.
D201-9NE	9 1/4	1 19/32	1 5/16	5/8	25/32	13 1/2 lb.
201-9NE	With plain handles					13 1/4 lb.

THREAD-HOLDING HIGH LEVERAGE PLIER

N E TYPE (STREAMLINED)

U. S. Patent No. 2,746,145
Can. No. 532,760

⅛" Dia. 11 Thread

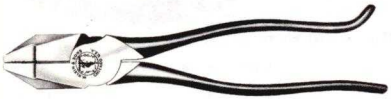
⅛ in. threaded opening permits holding threaded end of bolt without danger of stripping threads when removing or installing hardware on poles. Keeps all work on one side of pole. Installations are easier and safer. Handles blue plastic dipped

Cat. No.		Dimensions in inches* A	B	C	D	E	Av. Wt. Per Doz.
D213-9NE-TH		9¼	1 19/32	1 5/16	⅝	25/32	13½ lb.
HD213-9NE-TH	With Hi Dielectric orange handles						13½ lb.
213-9NE-TH	With plain handles						13¼ lb.

HIGH LEVERAGE IRON WORKER'S PLIER

U. S. Patent No. 2,746,145 Can. No. 532,760

For cutting soft annealed tie wire.

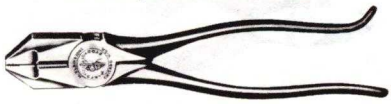


Similar to 213-9 but has hook bend on handle.

Cat. No.	Dimensions in inches* A	B	C	D	E	Av. Wt. Per Doz.
213-9-ST	9 9/32	1 7/16	1 7/32	⅝	23/32	12½ lb.

IRON WORKER'S SIDE CUTTER

For cutting soft annealed tie wire.

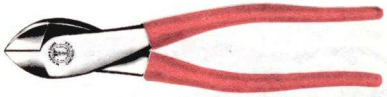


Similar in style to the famous Klein Side Cutting Plier 201-7 but has a coil spring to hold the jaws open and a hook bend in the handle.

Cat. No.	Dimensions in inches* A	B	C	D	E	Av. Wt. Per Doz.
201-7C-ST	8¾	1 9/32	1 5/32	½	⅝	7¼ lb.

*For dimension drawings of Klein Pliers, see page 14.

HIGH LEVERAGE DIAGONAL CUTTING PLIER



Handles red plastic dipped

Cat. No.	Dimensions in inches* A	B	C	D	Av. Wt. Per Doz.
D228-8	8	1 3/16	1 3/16	7/16	7 lb.

Bent Handles—Knives with Top Bevel

Handles red plastic dipped

Cat. No.	Dimensions in inches* A	B	C	D	Av. Wt. Per Doz.
D248-8	8	1 3/16	1 3/16	7/16	7¼ lb.

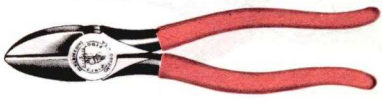
Two skinning holes for 12- and 14-gauge wire

Handles red plastic dipped

Cat. No.	Dimensions in inches* A	B	C	D	Av. Wt. Per Doz.
D243-8	8	1 3/16	1 3/16	7/16	7¼ lb.

DIAGONAL CUTTING PLIER

Heavy-Duty Pattern with "Handform" Handles

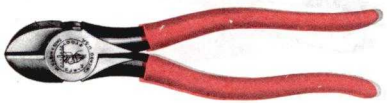


Handles red plastic dipped

Cat. No.		Dimensions in inches* A	B	C	D	Av. Wt. Per Doz.
D220-7		7 11/16	1	31/32	½	7¼ lb.
220-7	With plain handles					7 lb.

DIAGONAL CUTTING PLIER

Short Nose Heavy-Duty Pattern with "Handform" Handles



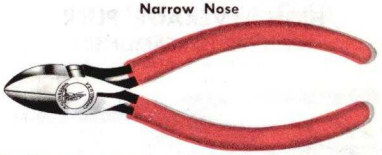
Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D220-7SN	7 1/4	5/8	31/32	1/2	7 lb.

DIAGONAL CUTTING PLIER

Narrow Nose



Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D202-5	5 1/2	13/16	11/16	7/16	4 lb.
D202-5C	Same as above with coil spring				
202-5	With plain handles				3 3/4 lb.
D202-6	6 1/16	13/16	11/16	7/16	4 1/4 lb.
D202-6C	Same as above with coil spring				
202-6	With plain handles				4 lb.

DIAGONAL CUTTING PLIER

Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D245-5C	5	11/16	9/16	3/8	3 lb.
	Same as above with coil spring,				3 lb.

DIAGONAL CUTTING PLIER

Heavy-Duty Pattern

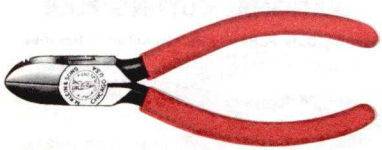
Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D252-6	6	13/16	3/4	7/16	4 1/4 lb.

DIAGONAL CUTTING PLIER

With "W" Stripping Notches



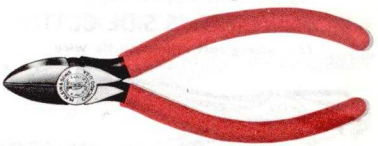
Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D245-5-W	5	11/16	9/16	3/8	3 lb.

DIAGONAL CUTTING PLIER

Semi-Flush Cutting



For plastic trimming or printed circuit board work Handles red plastic dipped. Supplied with coil spring.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D210-5C	5 1/2	13/16	11/16	7/16	3 3/4 lb.
D210-6C	6 1/16	13/16	11/16	7/16	4 lb.

For description on coil springs see page 13

DIAGONAL CUTTING PLIER

Bell System Type

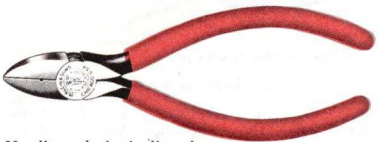
With "W" stripping notches and .052" skinning hole. Handles red plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D202-5-SW	5 1/2	13/16	11/16	7/16	4 lb.
D252-6-SW	6	13/16	3/4	7/16	4 1/4 lb.

DIAGONAL CUTTING PLIER

With .052" Skinning Hole



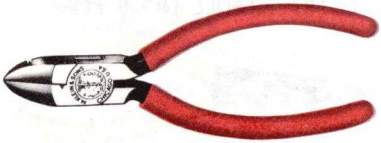
Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D240-5	5 1/2	13/16	11/16	7/16	4 lb.
D240-6	6 1/16	13/16	11/16	7/16	4 1/4 lb.

DIAGONAL CUTTING PLIER

Bell System Type "V" Notch Pattern



Designed for work on switchboards.
"W" notch is provided to slit insulation.
"V" notch at hinge to crush insulation.
Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D528-V	5	5/8	9/16	3/8	2 3/4 lb.

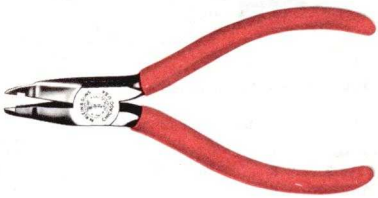
HIGH LEVERAGE END CUTTING PLIER

Permits cutting wire or nails close to the work.

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D232-8	7 23/32	7/8	1 1/2	1/2	1 1/2	7 3/4 lb.

SPECIAL SKINNING PLIER

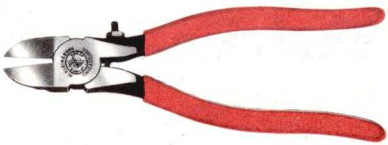


This plier designed for cutting and skinning 24-gauge synthetic coated wire. Notch back of cutting blade crushes insulation. Sharp blade provides quick, clean cut. Tapered nose reaches into confined space. Handles red plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D317-5P	5 1/4	7/8	1/2	5/16	1/4	2 1/2 lb.

DIAGONAL PLASTIC CUTTING PLIER



Designed with flush cutting knives for clean cutting of sprues, gates and other plastic cutting operations. Fast—precise cutting. Screw adjustment with 1/16 inch hollow head screw keeps knife edges from damaging each other. Not designed for use on metal. Supplied with coil spring.

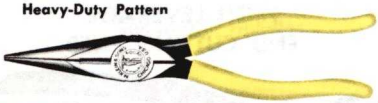
Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Doz.
D227-7C	7 11/16	1 1/2	31/32	1/2	15 lb.

*For dimension drawings of Klein Pliers, see page 14.

LONG NOSE CUTTING PLIER

Heavy-Duty Pattern



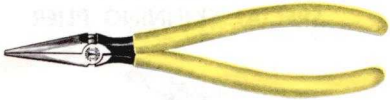
"Handform" handle, 203-8N has skinning hole for #12 B & S insulated wire.
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D203-8	8 5/16	2 5/16	1	1/2	5/8	1/8	8 1/4 lb.
203-8	With plain handles						8 lb.
D203-8N	8 5/16	2 5/16	1	1/2	5/8	1/8	8 1/4 lb.
203-8N	With plain handles						8 lb.

8 in. LONG NOSE PLIER

IMPROVED DESIGN



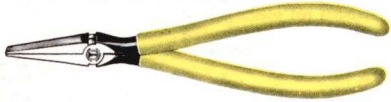
Handles yellow plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D314-8	8	1 15/16	11/16	3/8	3/32	4 3/4 lb.
With knurl.						

8 in. DUCK BILL PLIER

IMPROVED DESIGN



Handles yellow plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D315-8	8	1 9/16	11/16	3/8	3/32 x 17/64	4 3/4 lb.
With knurl.						

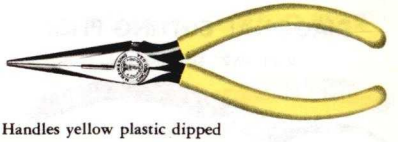
LONG NOSE PLIER

Handles yellow plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D301-5	5 9/16	1 9/16	11/16	3/8	3/32	3 1/4 lb.
D301-5C	Same as above but with coil spring, 1/16" point					
D301-6	6 5/8	1 15/16	11/16	3/8	3/32	4 lb.
D301-6C	Same as above but with coil spring, 1/16" point					
301-6	With plain handles					3 3/4 lb.
D301-7	7 1/8	2 7/16	11/16	3/8	3/32	4 1/4 lb.
D301-7C	Same as above but with coil spring, 1/16" point					

LONG NOSE SIDE CUTTING PLIER

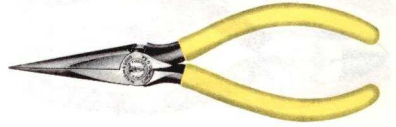


Handles yellow plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D203-5	5 9/16	1 9/16	11/16	3/8	1/2	3/32	3 1/4 lb.
D203-5C	Same as above but with coil spring					Point 1/16	3 1/4 lb.
D203-6	6 5/8	1 15/16	11/16	3/8	1/2	3/32	4 lb.
D203-6C	Same as above but with coil spring					Point 1/16	4 lb.
203-6	With plain handles						3 3/4 lb.
D203-7	7 1/8	2 7/16	11/16	3/8	1/2	3/32	4 1/4 lb.
D203-7C	Same as above but with coil spring					Point 1/16	4 1/4 lb.

LONG NEEDLE NOSE PLIER



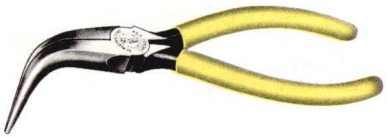
Similar to 301 series but with point only 1/16 in. diam.
Handles yellow plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D303-6	6 5/8	1 15/16	11/16	3/8	1/16	4 lb.

For description on coil springs see page 13

CURVED NOSE PLIER

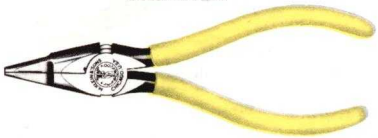


Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D302-6	6 1/4	1 1/2	11/16	3/8	1 3/4	3/32	3 1/2 lb.

LONG NOSE INSULATION SKINNER

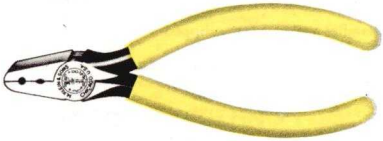


A special plier for telephone work designed to skin 22- or 24-gauge wire. Will crack insulation in slot provided in nose.
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D2291	6	1 1/4	11/16	3/8	1/16	3 1/2 lb.

CORD-TIP CLOSING PLIER



Sturdy jaws permit using plier as press for closing cord tips such as W.E. new Nos. 120 and 130. Diameter of holes are .129 in. and .156 in.
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D039	5 7/16	3/4	11/16	3/8	3 1/2 lb.

*For dimension drawings of Klein Pliers, see page 14.

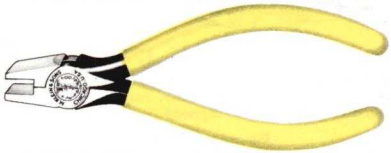
LONG NOSE SIDE CUTTING PLIER

Similar in design to 203 but with two notches designed to strip insulated wire gauges 19 and 22. Designed for telephone switchboard work.
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D203-6-H2	6 5/8	1 15/16	11/16	3/8	1/2	3/32	4 lb.

CONNECTOR CRIMPING PLIER



Designed to seat UG, UR and UY connectors. Stop behind cutout prevents damage to connectors. Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D334-5	5 3/8	5/8	11/16	3/8	3 lb.

Similar to D334-5 but with cutting knives added. Handles yellow plastic dipped.

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D234-6	6	5/8	11/16	3/8	3 1/4 lb.

SHEAR CUTTING PLIER

Pat. No. 2,848,810

Replaceable blades, will cut dead soft or hard wire. Supplied with coil spring and yellow plastic dipped handles.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D208-6C	6 5/8	1 15/16	11/16	3/8	1/2	1/16	3 3/4 lb.
078-K	Replacement blade and screw.						

SPRING ADJUSTING PLIER

Inside Jaws Polished
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D326-5	5 1/16	1 3/16	17/32	5/16	5/32x1/16	3 lb.

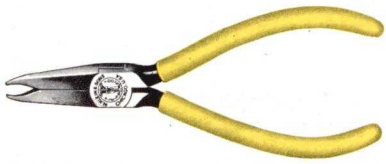
RELAY SPRING ADJUSTING PLIER

Hollow ground on the outside of jaws, to reach between and grasp springs easily. Inside jaws polished. Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D311-5 1/2	5 15/16	1 5/8	11/16	3/8	9/32x1/16	3 1/2 lb.

LAMP CAP EXTRACTOR



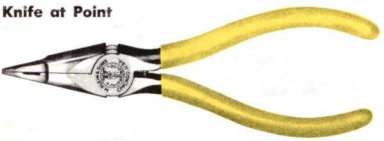
Specially designed to extract lamps from switchboards. Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D319-B	5 1/4	1 1/4	1/2	5/16	1/32	2 1/2 lb.

LONG NOSE PLIER

Knife at Point

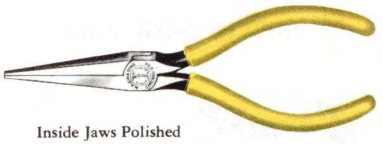


Nose has been reduced in thickness. Supplied with coil spring. Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D317-6PC	6	1 1/4	11/16	3/8	5/16	1/16	3 1/4 lb.

DUCK BILL PLIER

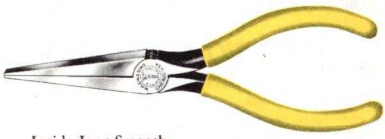


Inside Jaws Polished
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D306-5 1/2	5 19/32	1 3/4	17/32	5/16	1/8	3 lb.
D306-5 1/2 C	Same as above but with coil spring					3 lb.

DUCK BILL PLIER

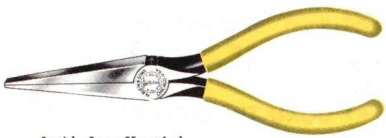


Inside Jaws Smooth
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D304-6	6 1/2	2 5/16	11/16	3/8	—	3/8	4 lb.

FLAT NOSE PLIER



Inside Jaws Knurled
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D305-6	6 1/2	2 5/16	11/16	3/8	—	5/16	4 lb.

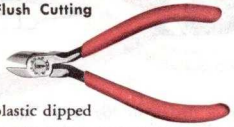
 For description on coil springs see page 13

SPECIALTY PLIERS FOR ELECTRONICS INDUSTRY

The electronics industry requires many pliers designed to meet highly specialized needs. Shown here are pliers developed by Klein engineers to serve this field. These pliers are supplied from stock. All long nose pliers have jaw edges rounded to prevent nicking wire.

DIAGONAL CUTTING PLIER

Semi-Flush Cutting



Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D257-4	4 3/16	1/2	7/16	1/4	1 1/4 lb.
D257-4C	Same as above but with coil spring				1 1/4 lb.

LONG NOSE PLIER

Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D321-4 1/2	4 3/4	1 1/16	7/16	1/4	1/32 x 1/16	1 1/2 lb.
D321-4 1/2 C	Same as above but with coil spring					1 1/2 lb.

LONG NOSE PLIER

Similar to D321-4½ but jaws are without knurl and jaw edges are radiused. Handles blue plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D322-4 1/2 C	4 3/4	1 1/16	7/16	1/4	1/32 x 1/16	1 1/2 lb.
	With coil spring					

DIAGONAL CUTTING PLIER

Lightweight, Pointed Nose, Semi-Flush Cutting

Handles red plastic dipped.

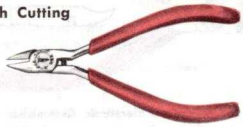
Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D209-4C	4 3/16	1/2	7/16	1/4	1 lb.
D209-5C	5	11/16	9/16	3/8	2 3/4 lb.

With plastic handles and coil spring

MIDGET DIAGONAL CUTTER

Full Flush Cutting



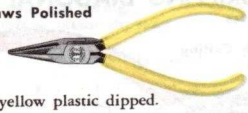
An extra small diagonal cutting plier for precision work. Recommended for use on small wire only. Small head permits working in confined area and assures maximum visibility. Supplied with coil spring. Handles red plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D295-4C	4 3/16	1/2	3/8	1/4	1 1/4 lb.

FLAT NOSE PLIER

Inside Jaws Polished



Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D323-4 1/2	4 3/4	1 1/16	7/16	1/4	1/8 x 1/16	1 1/2 lb.
D323-4 1/2 C	Same as above but with coil spring					1 1/2 lb.

TRANSVERSE END CUTTING PLIER

Semi-Flush Cutting

Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D224-4 1/2 C	4 5/8	15/16	7/16	1/4	1/8	1/8	1 1/2 lb.

HIGH HARDNESS PLIER

For Cutting Nickel Ribbon Wire

Semi-Flush Cutting

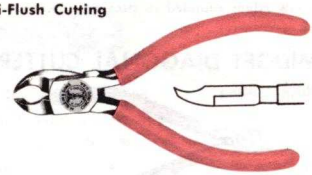
Cutting knives Rockwell hardness C60—as hard as a file. Designed for cutting nickel ribbon wire. Nose 1/16 in. at tip, permitting use in confined space. Each plier is hand honed under a magnifying glass. Bevel on knife is .005 to .008 in. Cutting knife at tip 3/16 in. long. High gloss finish standard. Handles red plastic dipped. Supplied with coil spring.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D230-4C	4 3/16	1/2	1/2	7/16	1 1/4 lb.

MATRIX CUTTER

Semi-Flush Cutting



For Miniature Electronic Assemblies

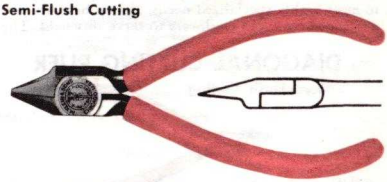
Combines advantages of end cutter and diagonal cutter. Extra high hardness cutting blade for cutting nickel ribbon. Supplied with coil spring and red plastic dipped handles. High gloss finish standard.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D263-4C	4 in.	3/16	7/16	1/4	1 1/2 lb.

DIAGONAL CUTTING PLIER

Semi-Flush Cutting



Similar in design to 209 Series, but relieved in the back to allow entry into confined areas.
Handles red plastic dipped.

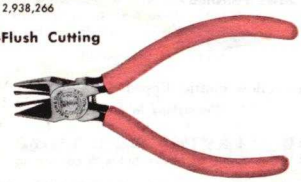
Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D219-4C	4 3/16	1/2	7/16	1/4	1 1/2 lb.
D219-5C	5	5/8	9/16	3/8	2 3/4 lb.

WIRE GRIPPING DIAGONAL CUTTER

Pat. No. 2,938,266

Semi-Flush Cutting



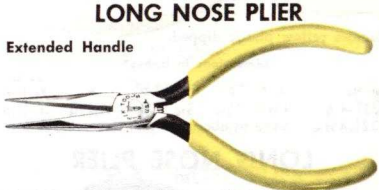
Similar in design to D209-5, but with steel springs between jaws to hold clipped ends of wire. Supplied with coil spring.
Handles red plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D229-5C	5	11/16	9/16	3/8	2 3/4 lb.

LONG NOSE PLIER

Extended Handle

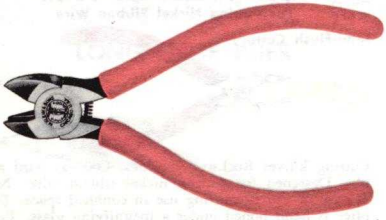


Ideal for production line use. Wider span of grip and extended handles provide greater comfort. Handles yellow plastic dipped. Supplied with coil spring. Needle nose point only 1/32 in.

Dimensions in Inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D309-6C	5 15/16	1 3/4	1/2	5/16	1/32	3 1/2 lb.

DIAGONAL CUTTER FOR PRINTED CIRCUITS



Cuts and crimps wire on printed circuits in one operation. Holds wire in place permitting efficient dip soldering. Supplied with coil spring.
Handles red plastic dipped.

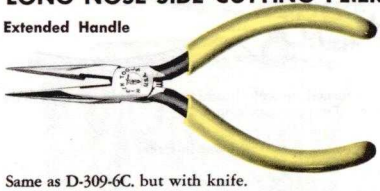
Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D052-C	5 1/8	7/16	11/16	3/8	3 lb.

 For description on coil springs see page 13

LONG NOSE SIDE CUTTING PLIER

Extended Handle

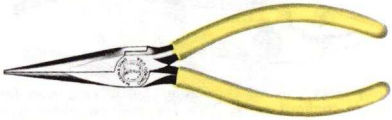


Same as D-309-6C. but with knife.

Dimensions in Inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D222-6C	5 15/16	1 3/4	1/2	5/16	13/32	1/32	3 1/2 lb.

SLIM LONG NOSE PLIER



Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D307-5 1/2	5 9/16	1 3/4	17/32	5/16	1/16	2 1/2 lb.
D307-5 1/2 C	Same as above but with coil spring,					

SLIM NOSE PLIER

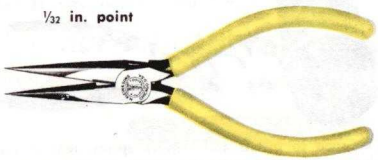
Similar to D307-5½, but jaws are polished and edges radiused—no knurl. Supplied with coil spring. Handles blue plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D327-5 1/2 C	5 9/16	1 3/4	17/32	5/16	1/16	2 1/2 lb.

NEEDLE NOSE SIDE CUTTING PLIER

1/32 in. point

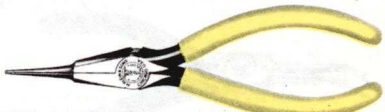


Needle nose point only 1/32 in. diameter. Supplied with coil spring. Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D221-5 1/2 C	5 9/16	1 3/4	17/32	5/16	7/16	1/32	2 1/2 lb.

NEEDLE NOSE PLIER



Supplied with coil spring.
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D301-6-SCP-C	6 5/8	1 15/16	1 1/16	3/8	1/2	1/16	3 1/2 lb.
D203-6-SCP-C	Same as above but with side cutting knives						3 1/4 lb.

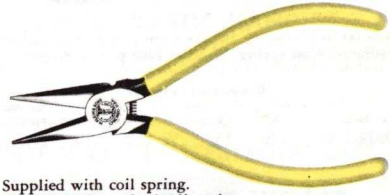
SLIM LONG NOSE PLIER

Supplied with coil spring.
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D310-6C	6 5/8	1 15/16	1 1/16	3/8	1/16	3 3/4 lb.

CHAIN NOSE PLIER

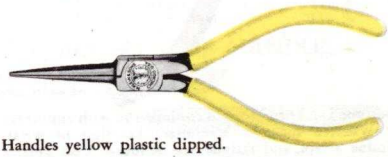


Supplied with coil spring.
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D317-5C	5 1/4	1 1/8	1/2	5/16	1/16	2 1/4 lb.

LONG NEEDLE NOSE PLIER



Handles yellow plastic dipped.

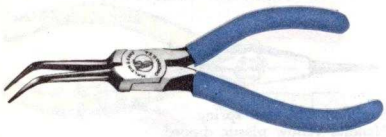
Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D318-5 1/2	5 13/32	1 3/4	1/2	5/16	1/16	2 1/2 lb.
D318-5 1/2 C	Same as above but with coil spring,					2 1/2 lb.

*For dimension drawings of Klein Pliers, see page 14.

CURVED NEEDLE NOSE PLIER

No Knurl



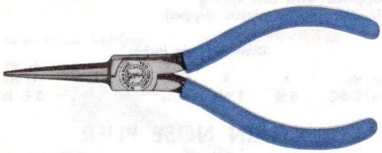
Will reach in confined space. Inside jaws polished and edges radiused. Coil spring holds jaws open. Handles blue plastic dipped.

Dimensions in inches

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D338-5½C	5½	1¾	½	3/16	1/16	2½ lb.

LONG NEEDLE NOSE PLIER

No Knurl

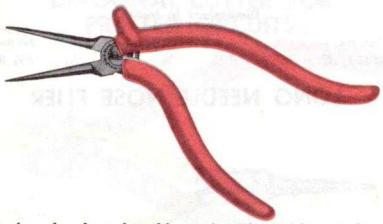


Similar to D318-5½, but jaws are polished and edges radiused. Coil spring. Handles blue plastic dipped.

Dimensions in inches

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D328-5½C	5 13/32	1¾	½	5/16	1/16	2½ lb.

FATIGUE-REDUCING PLIER

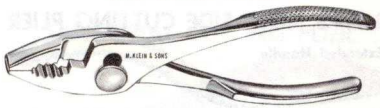


Designed and produced in conjunction with engineers at Western Electric. Minimizes bending of wrist. Undue strain and fatigue are reduced. Coil spring holds jaws open. Handles red plastic dipped.

Dimensions in inches

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D366-6C	7½	2	11/16	3/8	6½ lb.

SLIP JOINT PLIER

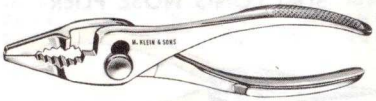


Drop-forged, nickel chromium plated. Shear type wire cutter. Two jaw position.

Dimensions in Inches

Cat. No.	A	B	C	D	Av. Wt. Doz.
511-6	6	1 3/32	1 3/16	13/32	5 lb.
511-8	8	1 5/16	1 1/4	7/16	7¾ lb.
511-10	10	1½	1½	½	12¾ lb.

THIN NOSE SLIP JOINT PLIER

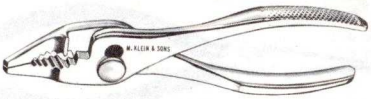


Drop-forged, nickel chromium plated. Thin nose for use in confined space. Two jaw position. Shear type wire cutter.

Dimensions in Inches

Cat. No.	A	B	C	D	Av. Wt. Doz.
513-6	6	1 15/16	1 3/16	7/32	3¾ lb.

BENT THIN NOSE SLIP JOINT PLIER



Nose is bent at 30° angle. Drop-forged, nickel chromium plated. For use in confined space. Shear type wire cutter.

Dimensions in Inches

Cat. No.	A	B	C	D	Av. Wt. Doz.
512-6	6	1 5/16	1 3/16	7/32	5 lb.

HOSE CLAMP PLIER

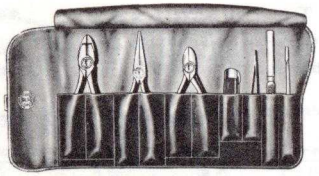
Designed to install and remove spring tension hose clamps. Slip ring permits removal of hand to adjust hose. Drop-forged, nickel chrome plated. Capacity 0-1 ¾ inch.

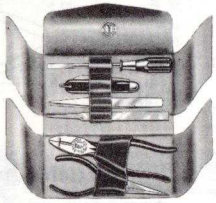
Dimensions in Inches

Cat. No.	A	B	C	D	Av. Wt. Doz.
514-6	7 5/8	1 7/8	1 5/16	3/8	6¼ lb.

 For description on coil springs see page 13

POCKET TOOL KITS





Folding case of blue vinyl containing the following tools:

1 No. 201-6NE Side Cutting Plier
1 No. 301-6 Long Nose Plier
1 No. 1550-2 Electrician's Knife
1 5-in. Electrician's Tweezers
1 4-in. File and Handle
1 Screwdriver 3-in.

Cat. No.	Size Closed	Approx. Wt. Each
1305-2	6 ½ x 3 ½ x 1 ½ in.	1 ¼ lb.

Handy kit for electricians and service men. Blue vinyl roll with tie wrap. Contains the following tools:

1 No. 201-6 NE Side Cutting Plier
1 No. 301-6 Long Nose Plier
1 No. 202-5 Diagonal Cutting Plier
1 No. 1550-2 Electrician's Knife
1 4-in. File and Handle
1 5-in. Electrician's Tweezers
1 Screwdriver 3-in.

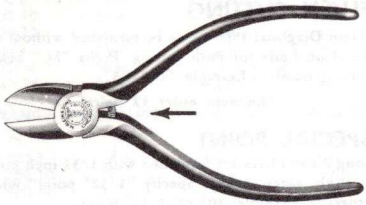
Cat. No.	Approx. Wt. Each
1305-33A	1 ½ lb.

Handy kit holding four midget pliers. Fits the pocket. Case of blue vinyl with two snaps. Contains following tools:

1 No. D 257-4 Diagonal Cutting Plier
1 No. D 321-4½ Long Nose Plier
1 No. D 224-4½C End Cutting Plier
1 No. D 323-4½ Duck Bill Plier

Cat. No.	Size Closed	Approx. Wt. Each
1305-4	7 x 2 ¾ x 1 in.	¾ lb.

KLEIN PLIERS WITH COIL SPRINGS



Pliers carrying designation "C" after the number are supplied with plated coil spring to hold jaws open. Sturdy spring assures long trouble-free service. Inside of handle is free of any obstruction.

SLIP-ON HANDLES

Slip-on plastic handles are available in red. Minimum order 12 pair of any one size.

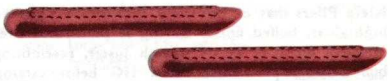
Cat. No.	Size	Av. Wt. Per Doz. Pr.
34	To fit 4-in. - 4½-in. pliers	¾ lb.
35	To fit 5-in. - 5½-in. pliers	¾ lb.
36	To fit 6-in. - 6½-in. pliers	¾ lb.

DIPPED PLASTIC HANDLES

For pliers with dipped plastic handles, indicate prefix "D" before the catalog number, as D203-6. Furnished in following colors:

Diagonal Pliers—Red
Long Nose Pliers—Yellow
End Cutting Pliers—Red
Side Cutting Pliers—Blue

"KLEIN-KOAT" TENITE HANDLES



Provide non-skid grip and greater comfort. Transparent "Tenite" plastic in bright maroon.

Cat. No.	Size	Av. Wt. Per Doz. Pr.
60	To fit 6-in. pliers	¾ lb.
70	To fit 7-in. pliers	1 ¼ lb.
89	To fit 8-in. or 9-in. pliers	1 ¼ lb.

COMFORT GRIP HANDLES

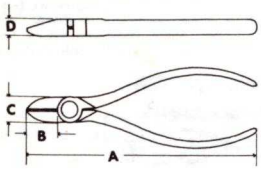
An exclusive Klein plier handle made of aerated plastic material to provide a firm but resilient cushion. Safety grip prevents slipping even when hands are wet. Red only.

Cat. No.	Size	Av. Wt. Per Doz. Pr.
55	To Fit 5-in. through 6½-in. pliers	¾ lb.

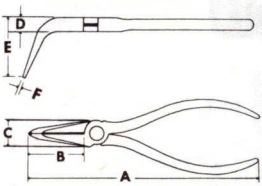
DIMENSIONS OF KLEIN PLIERS

Below are shown drawings of Klein Pliers. These will serve as a key to show the dimensions of any pliers shown on pages 2 through 13. All dimensions subject to commercial tolerances.

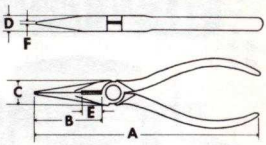
OBLIQUE CUTTING PLIER



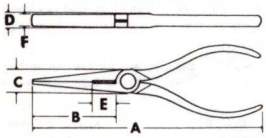
CURVED NOSE PLIER



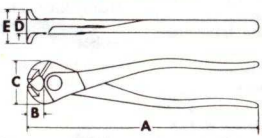
CHAIN AND LONG NOSE PLIER



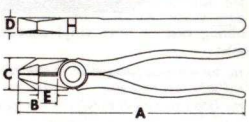
FLAT AND DUCK BILL PLIER



END CUTTING PLIER



SIDE CUTTING PLIER



SPECIAL FEATURES AVAILABLE ON KLEIN PLIERS

FINISHES

Fully Polished Finish

Klein Pliers may be furnished fully polished standard 120 grit finish. Prefix "FP" before catalog number. Example: FP 203-6. **Minimum order 12 pairs**

High-Gloss Finish

Klein Pliers may be furnished with a fully polished high-gloss, buffed finish. Buffing is performed over 300 grit finish to assure a high luster, resembling buffed chrome plate finish. Prefix "HG" before catalog number. Example: HG 203-6. **Minimum order 12 pairs**

Chrome-Plated Finish

Klein Pliers may be furnished with chrome plate over standard finish. This produces a Satin appearance. For High Gloss to Nickel Chrome finish, prefix HGNC before catalog number. Example: HGNC 203-6.

Minimum order 12 pairs

Hi Di-ELECTRIC PLIER HANDLES

Plier handles are orange plastic-dipped to provide dielectric strength. Pliers listed below are available from stock with Hi Di plastic handles. Other pliers with Hi Di handles are available on order. Write for information.

HD201-8NE	HD502-10
HD213-8NE	HD502-12
HD213-9NE	HD213-9NE-TH

Dielectric data furnished on request to responsible personnel.

FLUSH CUTTING

Klein Diagonal Pliers may be furnished without top bevel on knife for flush cutting. Prefix "FC" before catalog number. Example: FC 245-5.

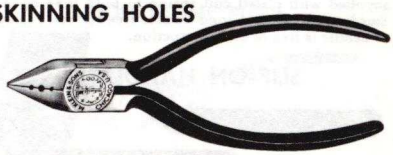
Minimum order 12 pairs

SPECIAL POINT

Long Nose Pliers are furnished with 1/32-inch point at slight extra charge. Specify "1/32″ point" when ordering. Example: 203-6C 1/32″ point.

Minimum order 12 pairs

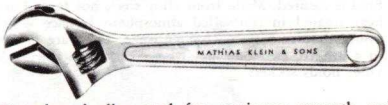
SKINNING HOLES



In pliers having cutting knives, skinning holes may be had to order. Holes are brought to a sharp edge through countersinking, assuring clean removal of any insulation. 1, 2 or 3 holes of various sizes may be placed into each plier. Illustrated is the 209-5 with stripping holes for 19 gauge, 22 gauge and 24 gauge wire. Prices on application.

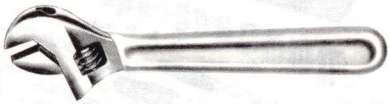
Minimum order 12 pairs

KLEIN ADJUSTABLE WRENCHES



Drop-forged alloy steel for maximum strength and light weight. Chrome plated.

Cat. No.	Size	Capacity	Av. Wt. Per Doz.
500-4	4 in.	½ in.	2½ lb.
500-6	6 in.	¾ in.	3 lb.
500-8	8 in.	15/16 in.	6 lb.
500-10	10 in.	1⅛ in.	9½ lb.
500-12	12 in.	1 5/16 in.	18 lb.
500-15	15 in.	1 11/16 in.	45 lb.
500-18	18 in.	2 1/16 in.	62½ lb.
500-24	24 in.	2 7/16 in.	107 lb.



Same as Series 500 but handles are yellow plastic dipped. Also available with Hi-Dielectric orange plastic dipped handles.

YELLOW PLASTIC DIPPED HANDLES

Cat. No.	Size	Capacity	Av. Wt. Per Doz.
D 500-4	4 in.	½ in.	2½ lb.
D 500-6	6 in.	¾ in.	4 lb.
D 500-8	8 in.	15/16 in.	7½ lb.
D 500-10	10 in.	1⅛ in.	11 lb.
D 500-12	12 in.	1 5/16 in.	20 lb.
D 500-15	15 in.	1 11/16 in.	45 lb.
D 500-18	18 in.	2 1/16 in.	62½ lb.
D 500-24	24 in.	2 7/16 in.	107 lb.

ORANGE HI-DIELECTRIC PLASTIC DIPPED HANDLES

Cat. No.	Size	Capacity	Av. Wt. Per Doz.
HD 500-8	8 in.	15/16 in.	7½ lb.
HD 500-10	10 in.	1⅛ in.	11 lb.
HD 500-12	12 in.	1 5/16 in.	20 lb.

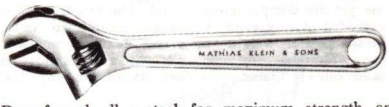
BLACK FINISH ADJUSTABLE WRENCHES

Drop-forged, heat treated, industrial black finish. Maximum strength, light weight.

Cat. No.	Size	Capacity	Av. Wt. Per Doz.
504-4	4 in.	½ in.	1¼ lb.
504-6	6 in.	¾ in.	2½ lb.
504-8	8 in.	15/16 in.	4½ lb.
504-10	10 in.	1⅛ in.	9¼ lb.
504-12	12 in.	1 5/16 in.	18 lb.
504-15	15 in.	1 11/16 in.	53 lb.
504-18	18 in.	2 1/16 in.	72 lb.

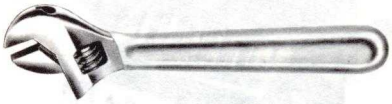
Also available with yellow plastic dipped handles or orange Hi-Dielectric plastic dipped handles to order.

KLEIN ADJUSTABLE WRENCHES



Drop-forged alloy steel for maximum strength and light weight. Chrome plated.

Cat. No.	Size	Capacity	Av. Wt. Per Doz.
501-6	6 in.	15/16 in.	2½ lb.
501-8	8 in.	1⅛ in.	4½ lb.
501-10	10 in.	1 5/16 in.	9¼ lb.
501-12	12 in.	1½ in.	18 lb.



Same as Series 501 but handles are yellow plastic dipped. Also available with Hi-Dielectric orange plastic dipped handles.

Cat. No.	Size	Capacity	Av. Wt. Per Doz.
D501-6	6 in.	15/16 in.	2½ lb.
D501-8	8 in.	1⅛ in.	4½ lb.
D501-10	10 in.	1 5/16 in.	9¼ lb.
D501-12	12 in.	1½ in.	18 lb.

KLEIN LINEMEN'S WRENCH

Forged from selected bar steel heat treated. Each end has a different size opening. Hole is provided at larger end for turning in standard pole steps. This wrench is particularly suited for use on the heavier three bolt guy clamps on which clearance is limited. Generally suitable for ⅝" hardware.

Openings: Large end—1 3/32" and 2 9/32"
Small end—13/16" and ⅝"

Cat. No.		Approx. Wt. Each
3146	13"	2 lb.

Openings: Large end—1 1/16" and 1 5/16"
Small end—⅝" and ⅞"

Cat. No.	Size	Av. Wt. Each
3146-A	13" for ¾" hardware	2 lb.

KLEIN LINEMEN'S WRENCH

"Bell System" Type
New NEMA Hardware Specifications

Openings: Large end—1 1/16" and 1 3/16"
Small end—1 1/16" and ⅞"

Cat. No.		Approx. Wt. Each
3146-B	13"	2 lb.

KLEIN SOCKET WRENCH SETS

Klein Socket Wrenches are designed for professional use yet are competitively priced. The larger sizes are extruded for greater strength. Streamlined design means lighter weight—no excess metal in non-stress areas. Straight thin side walls—tip and shoulder are same outside diameter—socket fits all the way. Lock holes are drilled, not dented or dimpled. Good, strong hold is assured. Made from alloy steel, hot forged and heat treated in controlled atmosphere furnace which assures harder surface—longer wear. Tools are packed in a hinged, two-tone metal box. Permanent metal divider holds sockets.

10 PIECE 3/8 INCH DRIVE SET

Four 6-pt. Sockets
3/8, 7/16, 1/2, 9/16 inches.
Three 12-pt. Sockets
5/8, 11/16, 3/4 inches.
One Extension, 5 inches.
Reversible Ratchet, 7 inches. With Rubber Grip.
Two-tone Metal Box

Cat. No.	Approx. Wt. Set
65101	2 1/8 lb.

26 PIECE 3/8 INCH DRIVE SET

Six 6-pt. Sockets
1/4, 5/16, 3/8, 7/16, 1/2, 9/16 inches.
Five 12-pt. Sockets
5/8, 11/16, 3/4, 13/16, 7/8 inches.
Seven 6-pt. Deep Sockets
3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 inches.
Spark Plug Holding Socket, 13/16 inches.
Three Extensions
3, 5, 8 inches.
Flex Handle, 10 inches.
Reversible Ratchet, 7 inches. With Rubber Grip.
Universal Joint
Two-tone Metal Box

Cat. No.	Approx. Wt. Set
65104	6 lb.

SOCKETS, REVERSIBLE RATCHETS, FLEX HANDLES, EXTENSIONS

6 POINT STANDARD SOCKET, 3/8 in. DRIVE

Cat. No.	Size Opening
65108	1/4 in.
65109	5/16 in.
65110	3/8 in.
65111	7/16 in.
65112	1/2 in.
65113	9/16 in.

12 POINT STANDARD SOCKET, 3/8 in. DRIVE

Cat. No.	Size Opening
65134	5/8 in.
65135	11/16 in.
65136	3/4 in.
65137	13/16 in.
65138	7/8 in.

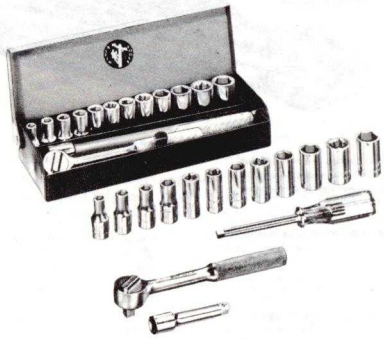
6 POINT DEEP SOCKET, 3/8 in. DRIVE

Cat. No.	Size Opening
65150	3/8 in.
65151	7/16 in.
65152	1/2 in.
65153	9/16 in.
65154	5/8 in.
65155	11/16 in.
65156	3/4 in.

65158	13/16 in. SPARK PLUG HOLDING SOCKET
65170	7 in. RATCHET REVERSIBLE WITH RUBBER GRIP
65173	3 in. EXTENSION
65174	5 in. EXTENSION
65175	8 in. EXTENSION
65180	10 in. FLEX HANDLE WITH RUBBER GRIP
65185	UNIVERSAL JOINT

SOCKET WRENCH SETS

16 PIECE ¼ INCH DRIVE SET



Nine 6-pt. Sockets
3/16, 7/32, ¼, 9/32, 5/16, 11/32, 3/8, 7/16, ½ inches.
Three 10-pt. Sockets Will fit both square and hex nuts.
¼, 5/16, 3/8 inches.
One Extension, 2 inches.
Reversible Ratchet, 4¾ inches.
Spinner
Two-tone Metal Box

Cat. No.	Approx. Wt. Set
65001	1 ¾ lb.

16 PIECE ½ INCH DRIVE SET

Twelve 12-pt. Sockets
7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8 inches.
Spark Plug Holding Socket, 13/16 inches.
One Extension, 5 inches.
Reversible Ratchet, 10½ inches. With Rubber Grip.
Two-tone Metal Box

Cat. No.	Approx. Wt. Set
65201	5½ lb.

6 POINT STANDARD SOCKET, ¼ in. DRIVE

Cat. No.	Size Opening
65010	3/16 in.
65011	7/32 in.
65012	¼ in.
65013	9/32 in.
65014	5/16 in.
65015	11/32 in.
65016	3/8 in.
65017	7/16 in.
65018	½ in.

10 POINT STANDARD SOCKET, ¼ in. DRIVE

Cat. No.	Size Opening
65031	¼ in.
65032	5/16 in.
65034	3/8 in.

65060	4 ¾ in. RATCHET REVERSIBLE
65062	2 in. EXTENSION
65063	6 in. EXTENSION
65066	SPINNER

12 POINT STANDARD SOCKET, ½ in. DRIVE

Cat. No.	Size Opening
65220	3/8 in.
65221	7/16 in.
65222	½ in.
65223	9/16 in.
65224	5/8 in.
65225	11/16 in.
65226	¾ in.
65227	13/16 in.
65228	7/8 in.
65229	15/16 in.
65230	1 in.
65231	1 1/16 in.
65232	1 1/8 in.
65234	1 ¼ in.

65258	13/16 in. SPARK PLUG HOLDING SOCKET
65280	10½ in. RATCHET REVERSIBLE WITH RUBBER GRIP
65283	5 in. EXTENSION
65284	10 in. EXTENSION
65290	18 in. FLEX HANDLE WITH RUBBER GRIP
65295	UNIVERSAL JOINT

RENEWAL UNITS

Units to renew drives in reversible ratchets are available in ¼ in., 3/8 in. and ½ in.

Cat. No.	Size
65440	¼ in.
65445	3/8 in.
65450	½ in.

KLEIN "CUSTOM" CUSHION-GRIP SCREWDRIVERS

Patent No. 2871899

Cross section shows slotted amber handle and interlocking ribbed sleeve of genuine Nitrile rubber.

Klein screwdrivers are designed for electricians and mechanics who want something better than the usual commercial screwdriver. Exceptionally strong, made of quality tempered steel, carefully heat treated. Full chrome-plated finish to prevent rust. The amber plastic handle is shock proof and is firmly secured to the steel shaft. Every Klein "Custom-Grip" screwdriver is fully guaranteed.

- **Quality tempered steel.**
- **Fully chrome-plated finish.**
- **Precision cross-ground point.**
- **Heavy-duty blade—winged shaft.**
- **Clear amber handle firmly secured to the shaft.**
- **Rubber grip resistant to oil, gas and water.**
- **50% greater torque.**
- **Super comfortable cushioning action, never hurts the hand.**

HEAVY-DUTY SQUARE SHANK

Cat. No.	Blade Diam. x Length	Overall Length	Approx. Wt. Doz.
600-1	1/4 sq. x 1 1/2 in.	3 7/16 in.	1 1/2 lb.
600-4	1/4 sq. x 4 in.	8 1/32 in.	3 lb.
600-6	5/16 sq. x 6 in.	10 5/16 in.	5 1/4 lb.
600-8	3/8 sq. x 8 in.	13 7/16 in.	7 3/4 lb.
600-12	3/8 sq. x 12 in.	17 7/16 in.	10 lb.

HEAVY-DUTY ROUND SHANK

Cat. No.	Blade Diam. x Length	Overall Length	Approx. Wt. Doz.
602-3	7/32 x 3 in.	6 1/4 in.	2 lb.
602-4	1/4 x 4 in.	8 1/32 in.	2 3/4 lb.
602-6	5/16 x 6 in.	10 5/16 in.	4 3/4 lb.
602-8	5/16 x 8 in.	13 5/16 in.	6 1/4 lb.
602-10	3/8 x 10 in.	15 7/16 in.	7 3/4 lb.
602-12	3/8 x 12 in.	17 7/16 in.	10 lb.

ELECTRICIANS AND TELEPHONE ROUND SHANK

Cat. No.	Blade Diam. x Length	Overall Length	Approx. Wt. Doz.
601-3	3/16 x 3 in.	6 1/4 in.	1 3/4 lb.
601-4	3/16 x 4 in.	7 1/2 in.	1 7/8 lb.
601-6	3/16 x 6 in.	9 3/4 in.	2 lb.
601-8	3/16 x 8 in.	11 3/4 in.	2 1/4 lb.
601-10	3/16 x 10 in.	13 3/4 in.	2 1/2 lb.

PHILLIPS HEAD

Cat. No.	Blade Diam. x Length	Overall Length	Approx. Wt. Doz.
603-1 #2 point stubby	1/4 x 1 1/4 in.	3 1/8 in.	1 1/2 lb.
603-3 #1 point	3/16 x 3 in.	6 1/4 in.	1 3/4 lb.
603-4 #2 point	1/4 x 4 in.	8 3/4 in.	2 1/4 lb.
603-6 #3 point	5/16 x 6 in.	11 in.	4 lb.

PLASTIC HANDLE SCREWDRIVER (WITHOUT CUSHION GRIP)

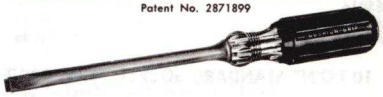
Cat. No.	Blade Diam. x Length	Overall Length	Approx. Wt. Doz.
604-3	5/16 x 3 in.	6 1/2 in.	1 1/2 lb.

ELECTRICIAN'S CABINET POINT

Cat. No.	Blade Diam. x Length	Overall Length	Approx. Wt. Doz.
605-4	1/4 x 4 in.	8 15/32 in.	3 lb.
605-6	1/4 x 6 in.	10 11/32 in.	4 lb.

INSULATED SHANK SCREWDRIVER

Patent No. 2871899



Insulation is an extremely hard plastic, highly resistant to cutting, cracking or chipping. The dipped coating has excellent dielectric properties and is thin enough to permit using the screwdriver in confined places. The tip is exposed beyond the plastic 1/8 in.

Cat. No.	Blade Diam. x Length	Overall Length	Approx. Wt. Each
620-3	7/32 x 2 3/4 in.	6 1/2 in.	6 1/2 lb.
620-4	1/4 x 3 3/4 in.	8 3/32 in.	3 1/4 lb.
620-6	5/16 x 5 3/4 in.	10 11/16 in.	5 1/2 lb.
620-8	3/8 x 7 3/4 in.	13 3/16 in.	7 1/4 lb.

Narrow blade only 3/16 in. on all lengths.

Cat. No.	Blade Diam. x Length	Overall Length	Approx. Wt. Doz.
621-6	3/16 x 5 3/4 in.	9 1/2 in.	2 3/4 lb.
621-8	3/16 x 7 3/4 in.	11 1/2 in.	3 lb.
621-10	3/16 x 9 3/4 in.	13 1/2 in.	3 1/4 lb.

SCREWHOLDING SCREWDRIVER

Designed with a spring clip at tip which holds screw firmly, permitting one-hand operation.

PHILLIPS HEAD

Cat. No.	Blade Diam. x Length	Overall Length	Approx. Wt. Doz.
608-3	7/32 hex. x 3 in.	6 1/4 in.	3 lb.
608-4	9/32 hex. x 4 in.	8 1/32 in.	4 lb.

KLEIN "SPEEDRIVER"

Saves time—reduces hand fatigue

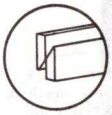
This amazing screwdriver is ideal for use where long threaded screws are used such as when hanging light fixtures, installing switch plates, etc.

The handle revolves, operating like a crank, to turn the screw. Only one hand is needed. Comes in both cabinet point and Phillips Head Styles.

The handle is patented Comfort Grip, clear amber, firmly secured to the shaft. Soft rubber grip is resistant to oil, gas and water.

CABINET POINT			PHILLIPS		
Cat. No.	Size	Approx Wt. Doz.	Cat. No.	Size	Approx Wt. Doz.
670-3	3/16 x 3 in.	1 3/4 lb.	673-3	No. 1 - 3 in.	1 3/4 lb.
670-6	3/16 x 6 in.	2 lb.	673-6	No. 1 - 6 in.	2 lb.
671-4	1/4 x 4 in.	3 lb.	672-4	No. 2 - 4 in.	3 lb.
671-6	1/4 x 6 in.	4 lb.	672-6	No. 2 - 6 in.	4 lb.

SCREW-HOLDING SCREWDRIVERS



Holds, starts, drives, sets the screw. Permits one hand operation. Will not mar screw slot. One screwdriver drives many sizes of screws.

Cat. No.	Blade	Overall Length	Av. Wt. Doz.
612-3	1/8 in.	5 in.	1 3/4 lb.
611-4	3/16 in.	8 in.	1 7/8 lb.
611-6	3/16 in.	10 in.	2 lb.
611-8	3/16 in.	12 in.	2 3/4 lb.

ROBERTSON SQUARE SCREWDRIVER

Similar to Klein Cushion Grip Screwdriver, but blade is designed to drive Robertson square screws. Tops of handles color-coded for easy identification.

Cat. No.	Size	Colors	Screws Sizes	Av. Wt. Per Doz.
660	#0	Yellow	3 and 4	1 3/4 lb.
661	#1	Green	5, 6, 7	1 3/4 lb.
662	#2	Red	8, 9, 10	2 1/2 lb.
663	#3	Black	12 and 14	2 1/2 lb.

SPIRAL RATCHET SCREWDRIVER

Has right and left hand drive as well as rigid setting. Quick return spring keeps blade in the screw slot and automatically returns handle to driving position after each stroke. Supplied with 7/32", 9/32" and No. 2 Phillips bits.

Cat. No.	Length Bit Extended	Approx. Wt. Each
64000	20 1/4 in.	1.1 lb.

Set of three bits 7/32", 9/32" and No. 2 Phillips bits.

Cat. No.	Approx. Wt. Set
64001	.1 lb.

RATCHET SCREWDRIVER & DRILL

Combination ratchet screwdriver and drill. Compact size, only 8 inches long, permits operation in confined space. Furnished with 2 drill points 7/64 and 9/64 in. and two bits 1/4 and 5/32 in.

Drill points and bits are contained in the handle which is clear plastic.

Cat. No.	Length Bit Extended	Approx. Wt. Each
64010	8 in.	½ lb.
64011		

Set of three drill points 5/64", 7/64" and 9/64" and two screwdriver bits 5/32" and No. 2 pt. Phillips. .1 lb.

SCRATCH AWL

Hard point for scratching metal, starting screw holes, etc. Cushion-grip handle.

Cat. No.	Length	Av. Wt. Per Doz.
650	7 in.	2½ lb.

KLEIN PUSH DRILL

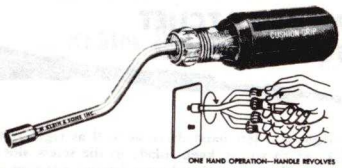
A sturdy, all steel drill. Exposed parts are chrome plated. Comes complete with eight drill points 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32 and 11/64 inch. Points are held in a magazine in the handle.

Cat. No.	Length with Drill Point	Approx. Wt. Each
64002	11½ in.	⅝ lb.

Set of Drill Points 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64.

Cat. No.	Approx. Wt. Set
64003	2 oz.

SPEE-D-NUT DRIVER



ONE HAND OPERATION—HANDLE REVOLVES

The rotating shank of this revolutionary tool acts like a crank permitting the handle to revolve. Only one hand is needed. Handle is patented Comfort Grip, clear amber, firmly secured to the shaft.
Shaft is hollow to facilitate turning nuts on long screws.

Cat. No.	Hex Size	Approx Wt. Doz.
680-¼ in.	¼ in.	2 lb.
680-5/16 in.	5/16 in.	2 lb.
680-⅜ in.	⅜ in.	3¾ lb.

CUSHION-GRIP NUT DRIVER

Patent No. 2,871,899

The finest nut driver made. Cushion grip is comfortable, never hurts the hand. Gives tremendous turning power. Shaft hollow to facilitate turning nuts on long screws. Handle is shock-proof, hammer-proof.

Cat. No.	Color	Shank	Hex Size	Wt. Per Doz.
630-3/16	Black	3⅛ in.	3/16 in.	2 lb.
630-¼	Red	3⅛ in.	¼ in.	2 lb.
630-5/16	Yellow	3⅛ in.	5/16 in.	2 lb.
630-11/32	Green	3⅛ in.	11/32 in.	2 lb.
630-⅜	Blue	3¼ in.	⅜ in.	3¾ lb.
630-7/16	Brown	3½ in.	7/16 in.	4 lb.
630-½	Red	3½ in.	½ in.	4 lb.

Set of 7 Drivers Listed Above

Cat. No.	Wt. Per Set
631	2½ lb.

INSULATED NUT DRIVER

A cushion grip nut driver with insulated shank of hard yellow plastic material. Shaft hollow to facilitate turning nuts on long screws.

Cat. No.	Color	Hex Size	Av. Wt. Per Doz.
640-3/16	Black	3/16 in.	2¾ lb.
640-¼	Red	¼ in.	2¾ lb.
640-5/16	Yellow	5/16 in.	3 lb.
640-⅜	Blue	⅜ in.	4¾ lb.
640-7/16	Brown	7/16 in.	4¾ lb.
640-½	Red	½ in.	5 lb.
640-9/16	Orange	9/16 in.	5¼ lb.
640-⅝	Yellow	⅝ in.	5½ lb.

DRIVE-A-MATIC NUT DRIVER

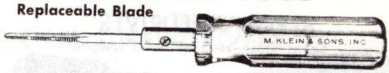
Fits 15 different nut and screw sizes

One tool will drive or loosen hex nuts from ¼ in. to 7/16 in., hex head screws from No. 6 to ¼ in. Selects proper size automatically. Eliminates hunting for the right driver. Comfort grip handle makes turning easy and protects the hands.

Cat. No.	Overall Length	Aver. Wt. Per Doz.
632	7"	4½ lb.

TRIPLE-TAP TOOL

Replaceable Blade



Similar to above but blade is replaceable. Clear plastic handle, color fluted. Supplied with blade.

Cat. No.	Color	Description	Av. Wt. Doz.
625-24	Blue	To tap 6/32, 8/32, 10/24	1½ lb.
625-32	Orange	To tap 6/32, 8/32, 10/32	1½ lb.

Replacement Blades 3 in. 12 to a box.

626-24	Replacement Blade for 625-24	Doz.	½ lb.
626-32	Replacement Blade for 625-32	Doz.	½ lb.

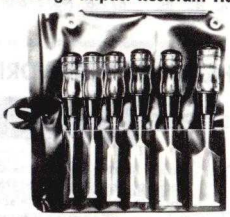
ELECTRICIAN'S CHISEL

Alloy steel, baked enamel handle, polished blade.

Cat. No.	Width Bit	Length	Av. Wt. Doz.
66100	2¾ in.	8 in.	12 lb.

WOOD CHISELS

With Tough Impact Resistant Handles



Heavy duty alloy steel blades. Available individually or in sets of four and six sizes. Set comes in plastic roll.

Cat. No.	Width Bit	Length	Av. Wt. Doz.
66210	¼ in.	7½ in.	3/16
66211	½ in.	7¾ in.	¼
66212	¾ in.	8 in.	5/16
66213	1 in.	8¼ in.	⅜
66214	1¼ in.	8½ in.	½
66215	1½ in.	8¾ in.	⅝

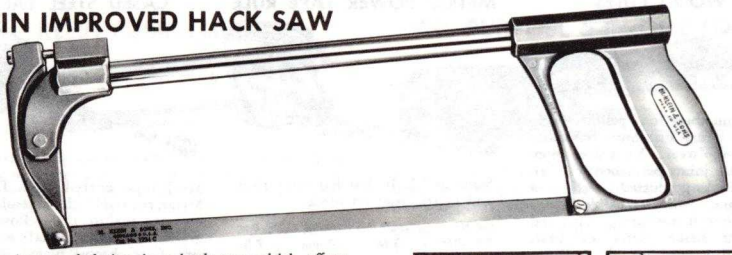
Set of all six sizes listed above.

Cat. No.	Av. Wt. Roll
66201	2⅛ lb.

Set of four sizes ¼, ½, ¾ and 1 inch.

Cat. No.	Av. Wt. Roll
66200	1½ lb.

KLEIN IMPROVED HACK SAW



A new, improved design in a hack saw which offers many advantages. It cuts through to a flat surface, cuts flat against a surface sidewise and offers the advantage of greater weight which means a faster job with less fatigue. Designed to give a comfortable front end grip for two hand operation. Frame is of die cast zinc—no plastic used in the construction. Blue oxidized finish.

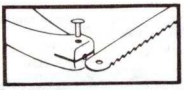
The new set screw design permits maximum tightening of the blade which means more efficient operation and longer blade life.

Storage chamber provided for six extra blades.

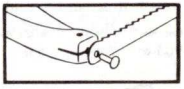
Cat. No.	Length	Length of Blade	Wt. Per Dozen
701-10	14 in.	10 in.	22 lb.
701-12	16 in.	12 in.	23 lb.

Same design as above but retaining pin is threaded, which prevents losing pin if blade is broken. Blade can only be used in vertical position.

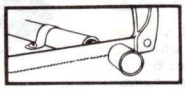
701-12 -TH	16 in.	12 in.	23 lb.



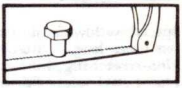
Blade held in accurately machined slots, insuring perfect alignment full length of blade.



Retaining pins hold blade for sideways cutting. Flat head of pins permits cutting flush against surface.



Cuts through to flat surface because there are no projecting wing nuts or protruding handle.



Cuts flat against surface sideways. Makes it easy to cut flush to wall or floor.

KLEIN COMPASS SAW

Improved design with oversized handle permits two hand operation. Klein Magic Slot permits fast blade change. It is unnecessary to remove the thumb screw. Handle die cast zinc, blue oxidized finish.

Supplied without blades.

Cat. No.	Length Handle	Grip	Wt. Per. Doz.
702	5 in.	4½ in.	6 lb.

MINI HACK SAW

Handy little saw, compact, sturdy. Uses regular hack saw blades even broken ones. Comfortable grip. Will fit into tight spaces. Cuts flush. Furnished with one 10 in. blade.

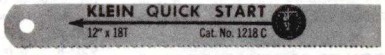
Cat. No.	Length without blade	Wt. Per Doz.
713	8 in.	1 ½ lb.

4 INCH COMPASS SAW BLADE

This 4 inch saw blade is designed to aid electricians in cutting through wall board or Masonite when installing wiring or outlet boxes. Fits Compass Saw Handle No. 702.

Cat. No.	Length	Teeth	Packed per Box	Approx. Wt. Doz.
709	4 in.	10T	12	¾ lb.

QUICK START HACKSAW BLADES



• NO FALSE STARTS • NO BUCKING • NO BOUNCING

Special starter teeth at the front end make starting a cut on angle iron, conduit or tubing far easier than ever before. Starter teeth lead conventional teeth right into the work. Makes possible hand held cutting on more types of jobs. Made in carbon steel or high speed steel—10 or 12 teeth.

			Packed per Box	Wt. Per Box
Carbon Steel Hack Saw Blades (Grey)				
1018C	10 in.	18T	100	4 lb.
1024C	10 in.	24T	100	4 lb.
1032C	10 in.	32T	100	4 lb.
1218C	12 in.	18T	100	5 lb.
1224C	12 in.	24T	100	5 lb.
1232C	12 in.	32T	100	5 lb.
High-Speed Steel Hack Saw Blades (Yellow)				
1018HS	10 in.	18T	100	4 lb.
1024HS	10 in.	24T	100	4 lb.
1032HS	10 in.	32T	100	4 lb.
1218HS	12 in.	18T	100	5 lb.
1224HS	12 in.	24T	100	5 lb.
1232HS	12 in.	32T	100	5 lb.

KLEIN COMPASS SAW BLADES

Highest quality carbon steel blades designed with Magic Slot for use with Klein Compass Saw.

Cat. No.	Length	Teeth	Packed per Box	Wt. Per Doz.
704	12 in.	8T	12	3 lb.
705	12 in.	10T	12	3 lb.
706	8 in.	10T	12	2¼ lb.
707	10 in.	10T	12	2¼ lb.
Metal Cutting Blade with Wavy Edge				
708	8 in.	24T	12	1¾ lb.

WOOD RULES

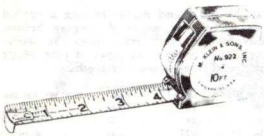
Black numbers on yellow background offers maximum visibility and long wear. King-size, non-stretching joints permanently lubricated. Sticks graduated on edges in inches and 16ths. Brass slide for extended 6-inch measuring. Tips and protector strike plates are brass plated. Rule outside read.

Cat. No.	Finish	Length	Av. Wt. Per Doz.
905-6	Yellow	6 ft.	4¾ lb.

Special yellow finish lasts at least ten times longer. Resists abrasion. Non-stretching, lubricated brass-plated steel joints. Sticks graduated on all edges in inches and sixteenths. Available in standard read and inside read.

Cat. No.	Length	Av. Wt. Per Doz.
901-6 standard read	6 ft.	4½ lb.
900-6 inside read	6 ft.	4½ lb.

POWER RETURN TAPE RULE



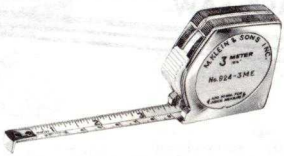
Positive locking. Smooth return. Control knob for easy operation. Steel blade coated with DuPont Mylar—resists abrasion, most oils and acids. Black numerals on yellow blade for maximum visibility. Blade replaceable. Belt clip on back of case.

Cat. No.	Length	Width	Av. Wt. Per Doz.
922-10	10 ft.	¾ in.	7 lb.
922-12	12 ft.	¾ in.	7½ lb.
922-16	16 ft.	¾ in.	8½ lb.
922-20	20 ft.	¾ in.	9½ lb.
922-25	25 ft.	1 in.	10½ lb.

Replacement Blades for above

Cat. No.	Length	Width	Av. Wt. Per Doz.
923-10	10 ft.	¾ in.	3 lb.
923-12	12 ft.	¾ in.	3 lb.
923-16	16 ft.	¾ in.	3½ lb.
923-20	20 ft.	¾ in.	4½ lb.
923-25	25 ft.	1 in.	5½ lb.

METRIC POWER TAPE RULE



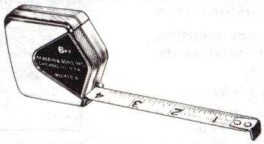
Same as 922-10 but has both inch and metric read on blade.

Cat. No.	Length Mtr.	Width	Approx. Wt. Doz.
924-3ME	3 M	19 mm	7 lb.

Replacement blade for above.

Cat. No.	Length Mtr.	Width	Approx. Wt. Doz.
925-3ME	3 M	19 mm	3 lb.

PUSH-PULL TAPE RULE



Steel blade coated with DuPont Mylar, takes three times more abrasive wear. Double scale markings after first foot. Hook compensates for inside or outside measuring.

Cat. No.	Length	Width	Av. Wt. Per Doz.
920-6	6 ft.	½ in.	4½ lb.
920-8	8 ft.	½ in.	5 lb.

Replacement Blades for above

Cat. No.	Length	Width	Av. Wt. Per Doz.
921-6	6 ft.	½ in.	2 lb.
921-8	8 ft.	½ in.	2 lb.

TAPELESS TAPE MEASURE

Pat. Pending

ROLL'N MEASURE

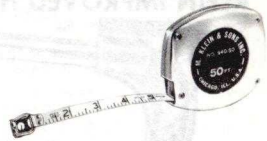
Records linear distance on large digital read-out. Ideal for measuring floors, ceilings, telephone lines, etc. Will measure circles, curves or contoured surfaces. One hand operation. Measures ¼ in. to 100 ft. then starts recording again giving unlimited capacity. Years of trouble-free service. Packed in hinged plastic box.

Cat. No.	Size	Approx. Wt. Each
944	2x3 in.	¼ lb.

Extension Handle. Length 36 in. For use when measuring ceilings, floors or hard to reach places.

Cat. No.	Length	Approx. Wt. Each
945	36 in.	½ lb.

CASED STEEL TAPES



Steel tape coated with DuPont Mylar, red and black numerals which contrast against the yellow background. Resists oil, alkali, acids and rust. Case chrome plated, die cast, contoured to fit the hand, will not rust.

Cat. No.	Length	Width	Approx. Wt. Each
940-50	50 ft.	⅜ in.	1 lb.
940-100	100 ft.	⅜ in.	1¾ lb.
941-50	50 Ft. Replacement Tape		
941-100	100 Ft. Replacement Tape		

NON-METALLIC TAPES

Highest quality woven dacron tape, rugged and durable. Bold red and black markings against a white background. Tape is protected by a clear, water resistant plastic coating. First 9 inches heavily reinforced with long-wearing plastic. Case of rust resistant steel covered with double strength vinyl.

Cat. No.	Length	Width	Approx. Wt. Ea.
942-50	50 ft.	⅝ in.	1 lb.
942-100	100 ft.	⅝ in.	1¾ lb.
943-50	Replacement Tape		
943-100	Replacement Tape		

150 FT. NON-METALLIC TAPES

Similar to 942-100 but tape is 150 ft. long and is mounted on a perforated aluminum disc reel with standard ring and adjustable strap handle.

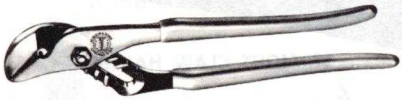
Cat. No.	Length	Width	Approx. Wt. Ea.
942-150	150 ft.	⅝ in.	3 lb.
943-150	Replacement Tape		

KLEIN PUMP PLIER

Jaws are positioned and locked into place by engaging tongue in proper groove. Jaws cannot slip even under heavy pressure. In 10 in. size six channels give wide range of jaw openings.

Cat. No.	Length	Max. Cap.	Av. Wt. Per Doz.
502-10	10 in.	1 ¾ in.	9 ½ lb.
502-12	12 in.	2 ⅛ in.	17 ⅜ lb.

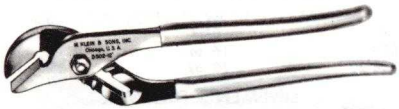
INSULATED HANDLE PUMP PLIER



Insulated handle pump pliers have yellow plastic dipped handles. The symbol HD before the number signifies hi-dielectric orange plastic dipped handles.

Cat. No.	Length	Max. Cap.	Av. Wt. Per Doz.
D502-6	6 ½ in.	1 in.	4 ½ lb.
D502-10	10 in.	1 ¾ in.	10 lb.
D502-12	12 in.	2 ⅛ in.	17 ⅜ lb.
D502-16	16 in.	4 ¼ in.	29 ¾ lb.
HD502-10	10 in.	1 ¾ in.	10 lb.
HD502-12	12 in.	2 ⅛ in.	17 ⅞ lb.

SMOOTH JAW PUMP PLIER



Same style as the Insulated Pump Plier shown above but jaws are smooth.

Cat. No.	Length	Max. Cap.	Av. Wt. Per Doz.
D502-10 SJ	10 in.	1 ¾ in.	10 lb.
D502-12 SJ	12 in.	2 ⅛ in.	17 ⅜ lb.

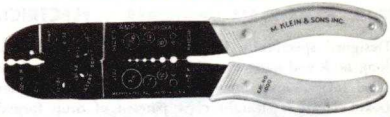
CRIMPING TOOL

Thin nose design permits work in confined space. Crimping die marked for insulated and non-insulated solderless terminals and connectors. Designed to accommodate wire from #10 to #22 AWG, Wire cutter in nose. Handles red plastic dipped.

Cat. No.	Length	Approx. Wt. Each
1005	9 ¾ in.	1 lb.

For Plier with Crimping Die see Page 2

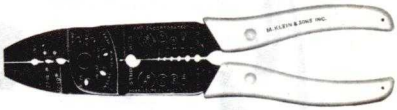
ALL PURPOSE 6-IN-ONE TOOL



Shears bolts clean, cuts wire, strips wire, measures stud sizes, gauges wire sizes, crimps terminals. Handles red plastic covered.

Cat. No.	Length	Av. Wt. Per Doz.
1000	7 ½ in.	5 lb.

SUPER ALL-PURPOSE TOOL



A general all-purpose tool for crimping insulated terminals and splices, cutting wire, stripping wire, cutting bolts, crimping 7 mm ignition and distributor terminals. Wire cutter in nose. Man-sized, red plastic handles contoured for comfort.

Cat. No.	Length	Aver. Wt. Per Doz.
1002	8 ½"	7 lb.

KLEIN WIRE STRIPPER

A compact, light handy tool only 5 inches long—ideal for stripping insulation from wire. Convenient hole for looping or bending wire. Handles yellow plastic dipped. Strong spring holds jaws open for maximum convenience. Also available without spring.

Cat. No.	Length	Approx. Wt. Each
1004 With spring	5 in.	¾ lb.
1003 Without spring	5 in.	¾ lb.

CABLE CUTTER

Cutter designed to cut cable easily and quickly because of its high leverage. Comes with stripping notches. Handles red plastic dipped.

Cat. No.	Length	Length of cut	Approx. Wt. Doz.
1104	7 in	1⅛ in.	6 lb.
1104NB	Replacement nut and bolt		

KLEIN HAMMERS

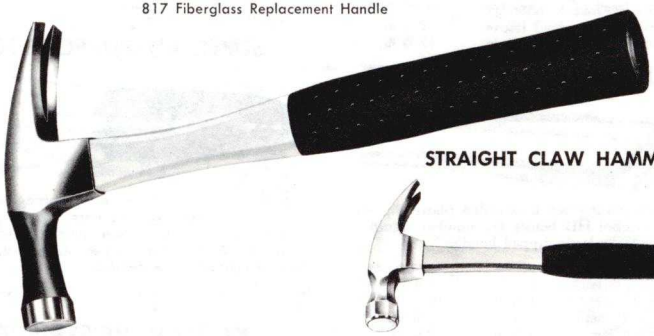
ELECTRICIANS' HAMMER

Designed specifically for electricians' use. The extra long neck and narrow striking face make this hammer ideal for reaching into such confined space as outlet boxes. Head is straight claw pattern of drop forged steel, highly polished.

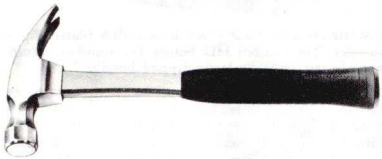
Handle is fiberglass which gives great strength and has high dielectric properties. The comfort grip handle is neoprene permanently bonded.

Cat. No.	Wt. of Head	Overall Length
807-18	18 oz.	14 in.

817 Fiberglass Replacement Handle



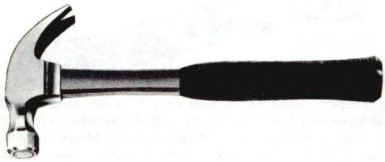
STRAIGHT CLAW HAMMER



Designed for heavy duty. Drop-forged steel, straight claw, "Klein-Tite" fiberglass handle prevents head from loosening even in most severe use. Handle has excellent dielectric characteristics.

Cat. No.	Wt. of Head	Overall Length
808-16	16 oz.	13 in.
808-20	20 oz.	13 in.

CURVED CLAW HAMMER



Maximum leverage when pulling nails. "Klein-Tite" design handle prevents head from loosening in most severe use. Handle fiberglass filament bonded with polyester resin for maximum strength and proper balance. Octagon head heat treated and fully polished. Rim-tempered to minimize chipping. Perforated comfort handle for firm grip.

Cat. No.	Wt. of Head	Overall Length
818-16	16 oz.	13 in.
818-20	20 oz.	13 in.

LINEMEN'S HAMMER

Perfectly balanced hammer for heavy work. Designed and constructed for comfort and to prevent tiring the hand. Both faces identical with 1¾-in. round crown driving surface and ample bevel to reduce possibility of chipping. The 3¾-in. head is designed for use in small or confined space. Handle is fiberglass. Neoprene cushion grip.

Cat. No.	Wt. of Head	Overall Length
809-36 Fiberglass Handle	36 oz.	14½ in.

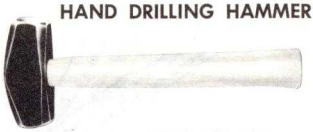
817 Fiberglass Replacement Handle

BALL PEIN HAMMER

Forged from high grade steel, rim-tempered crowned face minimizes chipping. Handle straight grain hickory stained and lacquered.

Cat. No.	Wt. of Head	Overall Length
803-8	8 oz.	13 in.
803-12	12 oz.	13½ in.
803-16	16 oz.	14½ in.
803-24	24 oz.	16 in.
803-32	32 oz.	16 in.

HAND DRILLING HAMMER

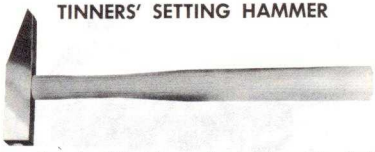


Extra heavy hammer with head of steel, drop-forged. Short length designed for use in confined space where extra weight is required. Select hickory handle, triple wedged and lacquered. Special process removes moisture from handle and replaces with oil to eliminate effects of extreme temperatures and provide permanent tightness.

Cat. No.	Wt. of Head	Overall Length
823-48	48 oz.	10¾ in.

848 Replacement Handle for 823-48

TINNERS' SETTING HAMMER



Drop-forged polished face and painted steel head, rim tempered face minimizes chipping. Selected straight grain hickory handle.

Cat. No.	Wt. of Head	Overall Length
824-12	12 oz.	13 in.

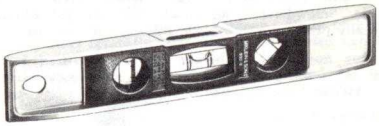
TINNERS' RIVETING HAMMER

Drop-forged painted steel head with polished face. Rim tempered face minimizes chipping. Selected straight grain hickory handle.

Cat. No.	Wt. of Head	Overall Length
825-12	12 oz.	13 in.

ALUMINUM TORPEDO LEVEL

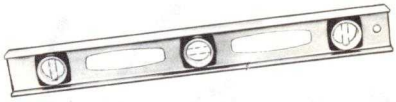
WITH TOP READ AND MAGNETIZED BASE



A precision tool, ideal for work in tight places. Has new top read feature. Base has magnetized strip. Three vials, plumb, level and 45° mitre of tough acrylic plastic, easily replaceable. Length only 9 inches.

Cat. No.	Vials	Length	Size	Approx. Wt. Doz.
930-9	3	9 in.	1½ x ⅝ in.	4 lb.

MAGNESIUM LEVEL



A high quality level of light weight magnesium. One piece extruded I-beam construction. Three solid set vials protected with glass windows.

Cat. No.	Length	Approx. Wt. Each
933-24	24 in.	1¼ lb.
933-28	28 in.	1½ lb.
933-48	48 in.	2½ lb.

MAGNESIUM LEVEL WITH PROTRACTOR

I-beam construction, very light weight. Twenty-four inches long. The three glass protected vials are complete units. Protractor dial measures any angle from 0° to 90°.

Cat. No.	Length	Approx. Wt. Each
932-24	24 in.	1.3 lb.

"XELA" LINEMAN'S AND ELECTRICIAN'S KNIVES

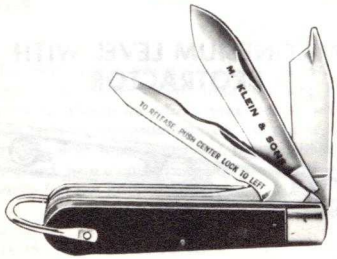
Sturdily constructed of high-grade steel carefully tempered. Handles are of special plastic that won't crack or chip. Fitted with wrought shackles riveted to handle. Screwdriver blades lock when opened automatically preventing the blade folding when in use.

Single blade 2½ in. long, screwdriver blade 3 in. long.

Cat. No.	Length closed	Av. Wt. Doz.
1550-2	3¾ in.	3 lb.

Sheepfoot blade 2 in. long, spearpoint blade 2½ in. long, screwdriver blade 3 in. long.

Cat. No.	Length closed	Av. Wt. Doz.
1550-6	3¾ in.	3½ lb.



Cable slitting knife has blade 2½ in. long designed to slit tough insulation and screwdriver blade 3 in. long. Both lock when open. Regular blade 3 in. long.

Cat. No.	Length closed	Av. Wt. Doz.
1550-9	3¾ in.	3½ lb.

Single blade locks when open. Length of blade 3 in.

Cat. No.	Length closed	Av. Wt. Doz.
1550-4	4 in.	4 lb.

Curved blade and screwdriver blade each 3 in.

Cat. No.	Length closed	Av. Wt. Doz.
1550-7	3¾ in.	3 lb.

Skinning knife. Single blade 3 in. long.

Cat. No.	Length closed	Av. Wt. Doz.
1550-5	3¾ in.	1 lb.

Two blade knife. Insulation slitting blade 2½ in. long locks when open. Curved blade 3 in. long.

Cat. No.	Length closed	Av. Wt. Doz.
1550-10	3¾ in.	3 lb.

CABLE SHEATH SPLITTING KNIFE

A compact knife for splitting lead cables. Has hammer head on back of blade. Blade of finest cutting steel shaped to a keen edge. Handle of leather with hole for convenience.

Cat. No.	Length	Blade	Approx. Wt. Doz.
1515-S	7 3/8 in.	2 19/32	4 ½ lb.

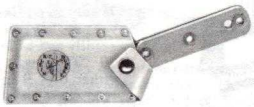
Leather guard for above.

Cat. No.	Approx. Wt. Doz.
5574-S	4 lb.

CABLE SHEATH SPLITTING KNIFE (HEAVY-DUTY BELL SYSTEM TYPE)

A heavy-duty knife for splitting cable sheaths. Blade is finest cutlery steel shaped to a keen edge. Strong leather handle is securely riveted. Tempered blue finish.

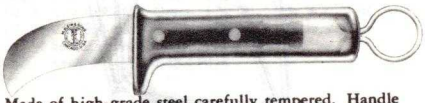
Cat. No.	Length Overall	Blade	Average Weight Per Doz.
1515-1	8 ¾"	4 ½"	13 lb.



Leather guard for above.

Cat. No.	Approx. Wt. Each
5574-L	4 lb.

PLASTIC HANDLE SKINNING KNIFE



Made of high-grade steel carefully tempered. Handle is of red molded on flame-resistant plastic, providing excellent insulation and comfortable grip. Back of blade is ground flat for scraping. Handy ring for fastening to snap is imbedded in plastic handle. Molded finger guard prevents accidents.

Cat. No.	Length Less Ring	Blade	Average Weight Per Doz.
1570-3	8"	3"	4 ¼ lb.

1570-3LR as above less ring in handle.

RUBBER HANDLE SKINNING KNIFE

An ideal skinning knife for linemen. Made of high quality steel carefully tempered. The molded handle is of half-hard rubber providing insulation and a comfortable grip. Back of blade is ground flat for scraping. Hole in handle is through solid rubber.

Cat. No.	Length Overall	Blade	Average Weight Per Doz.
1560-3	8"	3"	4 ¼ lb.

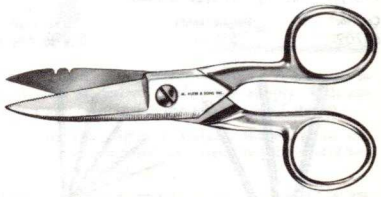
Pocket for above knife available see page 47

"XELA" ELECTRICIANS' SCISSORS

Specially designed for electricians and mechanics. Made of high-grade steel, carefully tempered. Screw hinge permits adjustment. Nickle plated finish.

Cat. No.	Size	Average Weight Per Doz.
2100-5	5"	2 lb.

Pocket for above scissors available see page 47



Similar to 2100-5 but with the lower blade serrated to prevent slippage of wire when cutting. Upper blade has a notch for stripping 19 and 23 gauge wire.

Cat. No.	Size	Av. Wt Per Doz.
2100-7	5 in.	2 lb.

Pocket for above scissors available see page 47

UTILITY KNIFE

Lightweight aluminum handle designed for comfort. Razor blade steel knife is replaceable and retractable to 3 positions. Storage for extra blades is provided in the handle. Supplied with three heavy duty blades.

Cat. No.	Length	Approx. Wt. Each
44100	6 in.	4 oz.

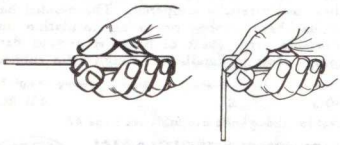
Razor type replaceable blade, heavy duty. (Interchangeable with most other makes of utility knives.)

Cat. No.		Size
44101	Package of 5 Blades	2 7/16 x .025

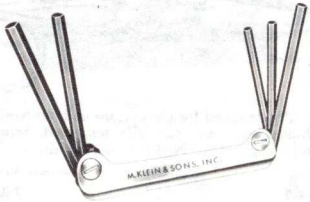
Pocket for above knife available see page 47

KLEIN HEX KEYS

Handy, hex key wrench sets that fold and fit into the pocket. Made of chrome nickel alloy steel, precision heat treated. End of wrenches are square cut and beveled to slip easily and securely into screws.

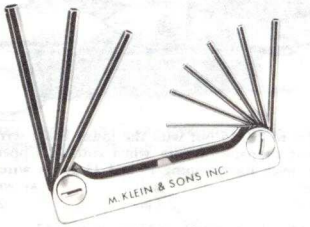


USE STRAIGHT OUT OR AT RIGHT ANGLES FOR EXTRA LEVERAGE



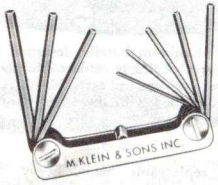
5 Keys: 3/16, 7/32, 1/4, 5/16, 3/8 inch.

Cat. No.	Handle Length	Key Length
68702	5 1/4 in.	3 1/8 to 4 5/8 in.



9 Keys: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4 inch.

Cat. No.	Handle Length	Key Length
68701	4 1/4 in.	1 11/16 to 3 1/2 in.



8 Keys: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32 inch.

Cat. No.	Handle Length	Key Length
68700	3 in.	1 7/16 to 2 3/8 in.

T HANDLE HEX KEYS

Made of high quality chrome nickel alloy steel, heat treated. Precision drawn to close tolerances to assure accurate fit into screw head. The T handle is easy to grasp and provides maximum torque for greater leverage. Available in two arm lengths, 6 in. and 9 in.

HEX KEYS 6 INCH ARM LENGTHS

Cat. No.	Hex Size
68606	3/32 in.
68607	7/64 in.
68608	1/8 in.
68609	9/64 in.
68610	5/32 in.
68612	3/16 in.
68614	7/32 in.
68616	1/4 in.
68620	5/16 in.
68624	3/8 in.

Complete set of all 10 Wrenches with 6 inch arm length.

Cat. No.	Arm Length
68600	6 in.

HEX KEYS 9 INCH ARM LENGTHS

Cat. No.	Hex Size
68906	3/32 in.
68907	7/64 in.
68908	1/8 in.
68909	9/64 in.
68910	5/32 in.
68912	3/16 in.
68914	7/32 in.
68916	1/4 in.
68920	5/16 in.
68924	3/8 in.

Complete set of all 10 wrenches with 9 inch arm length.

Cat. No.	Arm Length
68900	9 in.

HEX KEY STAND

Handy metal Hex Key Stand —keeps keys on workbench readily available. Will hold 10 "T" handle Hex Keys either 6 or 9 inch. Easy to read chart on side of stand.

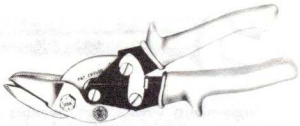
Cat. No.	Length	Width	Height	Approx. Wt. Each
369	5 3/4 in.	4 1/8 in.	3 1/8 in.	3/4 lb.

FOLDING SCREWDRIVER

A handy pocket size combination tool in one folding unit. All blades are of high quality alloy steel heat treated. Contains 3 screwdriver blades, 1/8, 3/16 and 1/4 inch, #2 Phillips Head blade and 3/16 Hole Punch Awl.

Cat. No.	Handle Length	Blade Length
68705	3 5/8 in.	2 3/8 to 3 in.

PIPE AND DUCT SNIP



Double levers transmit exceptional power with half the effort. Extra sharp piercing tip makes starting cut easy. Offset handle provides hand protection. Cuts any shape duct, seams or sheet metal stock quickly and easily.

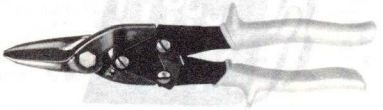
Cat. No.	Length	Length of Cut	Approx. Wt. Doz.
1105	9¼ in.	9/16 in.	12 lb.

KLEIN DROP-FORGED SNIP

Smooth blade action, cuts all sheet metal. Easy operation and proper balance prevents fatigue.

Cat. No.	Length	Length of Cut	Approx. Wt. Doz.
1106	12 in.	3¼ in.	24 lb.

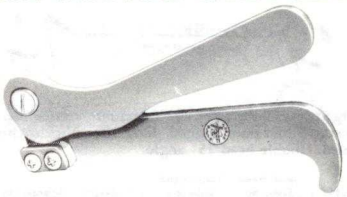
METAL-CUTTING AVIATION SNIPS



Compound action assures maximum cutting ease. Jaws are hot drop-forged molybdenum steel. Handles are formed of electric furnace steel. Safety latch keeps jaws closed when not in use. Plastic handles provide maximum comfort. Available in left, right, or straight styles. Color coded handles.

Cat. No.	Style	Color	Length of Cut	Full Length	Wt. Each
1100 L	Cuts to Left	Red	1⅜ in.	9¾ in.	1 lb.
1101 R	Cuts to Right	Green	1⅜ in.	9¾ in.	1 lb.
1102 S	Cuts Straight	Yellow	1⅜ in.	9¾ in.	1 lb.
P406	Replacement Spring 1100L & 1102S				
P407	Replacement Spring 1101R				

FISH TAPE AND WIRE PULLER

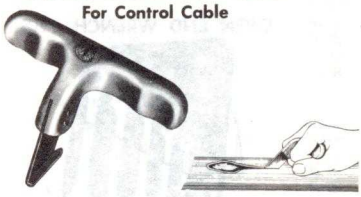


The most satisfactory puller of wire or fish tape made. Ample, easy grip handles provide for maximum pulling power. Jaws grip fish tape firmly but will not damage fish tape or wire.

Cat. No.	Length	Approx. Wt. Each
50365	7 in.	6.5 oz.

KLEIN SLITTING TOOL

For Control Cable

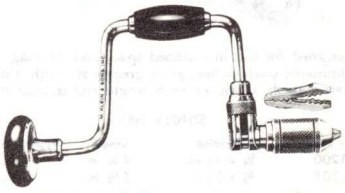


Designed to slit tough insulation from a few inches to as many feet as desired, swiftly and simply. Will not damage conductors inside the weatherproof sheath.

Handle cast zinc, light in weight, shaped to fit the hand. Knife of tempered tool steel may be sharpened and is easily replaced.

Cat. No.	Size	Av. Wt Per Doz.
1558	4½ in. x 2½ in.	3 lb.
058-K	Replacement knife and roll pin.	

KLEIN BIT BRACE



Steel nickel plated. Ball bearing head steel clad with spring loaded alligator jaws. Holds square taper shank bits, small and medium size drills.

Cat. No.	Sweep	Approx. Wt. Each
64004	10 in.	2.9 lb.
64005	12 in.	3.5 lb.

OPEN END WRENCHES

Forged from finest alloy steel. Accurately machined and broached to assure rugged, long life. Nickle chrome plated. Double head 15° angle.

Cat. No.	Small Head Opening	Large Head Opening	Length	Approx. Wt. Each
68100	1/4 in.	5/16 in.	3 13/16 in.	1/32 lb.
68101	3/8 in.	7/16 in.	4 11/16 in.	1/16 lb.
68102	1/2 in.	9/16 in.	6 1/4 in.	1/8 lb.
68103	5/8 in.	11/16 in.	7 1/2 in.	1/4 lb.
68104	3/4 in.	13/16 in.	9 3/4 in.	9/16 lb.
68105	7/8 in.	15/16 in.	10 1/2 in.	3/4 lb.
68106	1 in.	1 1/8 in.	12 1/4 in.	1 lb.
68107	1 1/4 in.	1 5/16 in.	14 3/8 in.	1 1/2 lb.

OPEN END WRENCH SETS

Packed in convenient plastic rolls.

Cat. No.	
68120	Five Piece 68101 thru 68105
68122	Seven Piece 68100 thru 68106

RATCHETING BOX WRENCHES

Designed for use in confined space and on long studs. Laminated construction gives greater strength. Chrome plated finish. Come in both single and double hex.

SINGLE HEX

Cat. No.	Opening	Length	Approx. Wt. Each
68200	1/4 x 5/16 in.	4 1/4 in.	1/8 lb.
68201	3/8 x 7/16 in.	5 1/2 in.	3/16 lb.

DOUBLE HEX

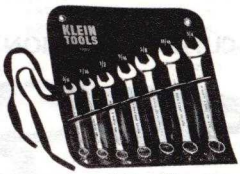
Cat. No.	Opening	Length	Approx. Wt. Each
68202	1/2 x 9/16 in.	6 1/2 in.	7/16 lb.
68203	5/8 x 11/16 in.	8 in.	11/16 lb.
68204	5/8 x 3/4 in.	8 in.	5/8 lb.
68205	11/16 x 3/4 in.	9 1/4 in.	13/16 lb.
68206	13/16 x 7/8 in.	9 1/4 in.	3/4 lb.

COMBINATION WRENCHES

A high quality wrench that combines an open end and a box wrench in one tool. Made of finest quality alloy steel. Rugged for tough service. Nickle chrome plated. Box end 12 point with 15° angle. offset. Open end 15° angle.

Cat. No.	Open End	Length	Approx. Wt. Each
68040	5/16 in.	4 7/32 in.	3/64 lb.
68041	11/32 in.	4 11/16 in.	3/64 lb.
68042	3/8 in.	4 11/16 in.	3/32 lb.
68043	7/16 in.	5 3/16 in.	1/8 lb.
68044	1/2 in.	5 11/16 in.	5/32 lb.
68045	9/16 in.	6 7/32 in.	3/16 lb.
68046	5/8 in.	6 27/32 in.	1/4 lb.
68047	11/16 in.	7 15/32 in.	9/32 lb.
68048	3/4 in.	8 1/8 in.	10/32 lb.
68049	13/16 in.	11 5/32 in.	9/16 lb.
68050	7/8 in.	12 3/16 in.	3/4 lb.
68051	15/16 in.	13 1/16 in.	7/8 lb.
68052	1 in.	13 15/16 in.	1 1/4 lb.
68053	1 1/16 in.	14 27/32 in.	1 1/2 lb.
68054	1 1/8 in.	15 23/32 in.	1 3/4 lb.
68055	1 1/4 in.	16 1/2 in.	2 lb.

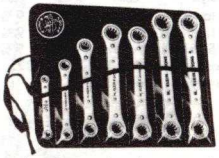
COMBINATION WRENCH SETS



Packed in convenient plastic rolls.

Cat. No.	
68060	Seven Piece 68042 thru 68048
68062	Eleven Piece 68042 thru 68052

RATCHETING BOX WRENCH SETS



Sets of the above wrenches in convenient plastic roll are available in two sets. One holds three wrenches and the other holds seven wrenches.

Cat. No.	Wrenches
68220	Three Wrenches Nos. 68201, 68202, 68203
68222	Seven Wrenches Nos. 68200, 68201, 68202, 68203, 68204, 68205, 68206

AIR CONDITIONING AND REFRIGERATION WRENCHES

REFRIGERATION RATCHET BOX WRENCHES

Designed for air conditioning, refrigeration servicemen and others faced with the necessity of working in a limited area. Ratchet action is smooth and requires minimum handle movement. Outside chrome plated to assure long life.

Cat. No.	Ratchet Opening 4 Pt.	6 Pt.	Handle Openings 4 Pt.	6 Pt.	Length	Approx. Wt. Each
68215	¼ in.	—	3/16 in.-¼ in.	½ in.	6 in.	¼ lb.

NON-REVERSIBLE RATCHET WRENCHES

Ratcheting box wrenches designed to shut off valves, packing glands, for work on compressors, pumps, etc. especially in the air conditioning and refrigeration fields. Openings are accurately broached for perfect non-slip fit. Outside plates are chrome plated.

Cat. No.	Ratchet Openings 4 Pt.	6 Pt.	Handle Openings 4 Pt.	6 Pt.	Length	Approx. Wt. Each
68216	¼ in.	—	3/16 in.-¼ in.	½ in.	6 in.	⅓ lb.
68217	5/16 in.	—	3/16 in.-5/16 in.	½ in.	6 in.	⅓ lb.
68218	⅜ in.	—	3/16 in.-¼ in.	½ in.	6 in.	⅓ lb.

REFRIGERATION RATCHET BOX WRENCHES

Reversing ratchet on one end and single hex, solid box construction on the other. Efficient, smooth working ratchet provides speed with minimum handle movement.

Cat. No.	Reversible Ratchet Square	Solid Box Single Hex.	Length	Approx. Wt. Each
68210	¼ in.	9/16 in.	5 in.	⅜ lb.
68211	¼ in.-3/16 in.	½ in.-9/16 in.	5 in.	⅜ lb.

Special combination wrench same as 68211 but with reversible ratchet on both ends.

68212	¼ in.-3/16 in.	½ in.-9/16 in.	7 in.	⅝ lb.

FLARE NUT WRENCHES

Designed for tube fitting applications such as vacuum, hydraulic refrigeration and fuel lines used on automotive, truck, road machinery and industrial equipment. Constructed of the finest alloy steel with cam-fered openings and high clearance heads for maximum ease of use. The wrench ends are designed with extra thick ends to avoid damage to soft metal fittings. Chrome plated for long service life.

12 Point—30° Openings

Cat. No.	Opening	Length	Approx. Wt. Each
68000	⅜ — 7/16 in.	5 11/16 in.	⅛ lb.
68001	½ — 9/16 in.	6 ½ in.	⅛ lb.
68002	⅝ — 11/16 in.	7 5/16 in.	¼ lb.
68003	¾ — ⅞ in.	8 in.	½ lb.

12 Point—7½° Openings

Cat. No.	Opening	Length	Approx. Wt. Each
68004	¾ in. — 1 in.	8 in.	½ lb.
68005	⅝ in. — 15/16 in.	9 ½ in.	⅞ lb.
68006	⅞ in. — 1 in.	9 ½ in.	⅞ lb.
68007	⅞ in. — 1 ⅛ in.	9 ½ in.	¾ lb.
68008	13/16 in. — 1 1/16 in..	8 ¾ in.	1 lb.
68009	15/16 in. — 1 5/16 in..	10 ¼ in.	1 ⅛ lb.

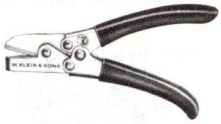
SHEET METAL WORKERS TOOLS

HAND CRIMPER

A perfect crimping tool for round, square and corrugated pipe. Compound leverage with spring action. Full 20 ga. capacity. Non-slip plastic grip. Has compound action and spring return action.

Cat. No.	Length	Approx. Wt. Each
63100	9 in.	1 lb.

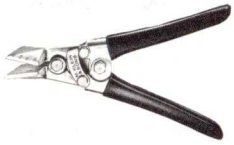
SINGLE CRIMPER



An economical hand crimper with compound leverage. Cuts both round and square pipe and downspouts. Non-slip plastic grip.

Cat. No.	Length	Approx. Wt. Each
63101	8 in.	½ lb.

HAND SEAMER



Powerful jaws with compound leverage. Squeezes down without effort on seams. Non-slip plastic grip. Scaled depth marks on jaws. Jawing capacity 3¼ in. Seams to 1¼ in.

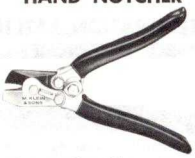
Cat. No.	Length	Approx. Wt. Each
63110	8 in.	1¼ lb.

SNAP LOCK PUNCH

Designed to form a raised ear that locks seamed edges of pipe or duct. Compound leverage with spring return action. Non-slip plastic handles. Capacity 20 ga. Set for ⅜ in. depth. Adjusts ¼ in. to ⅝ in.

Cat. No.	Length	Approx. Wt. Each
63115	8 in.	1 lb.

HAND NOTCHER



A fast, easy cutting notcher. Has compound action with spring return action. Makes a clean, effortless cut. 31° angle, 13/16 in. deep. Heavy duty construction.

Cat. No.	Length	Approx. Wt. Each
63120	8 in.	1 lb.

FOLDING TOOLS

Sturdy tools designed to fold 24 to 30 ga. mild steel. Folds both ⅜ and ½ in. Folds up to length of tool. Available in 8 in. and 12 in. lengths.

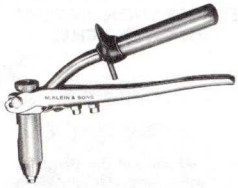
Cat. No.	Length	Approx. Wt.
63125	8 in. x 2¾ in.	¾ lb.
63127	12 in. x 2¾ in.	1 lb.

DUCT STRETCHER

Pulls square duct together easily with a rolling action and holds it in place while cleat is slipped on. Thinness of tool makes it ideal for close to the wall or confined installations. Wheels are removable and may be placed on the opposite side to reverse motion when obstructions prevent movement of handle one way.

Cat. No.	Length	Approx. Wt. Each
63135	16 in.	¾ lb.

2 IN 1 RIVETER



Has two pulling positions—a single long stroke or an easy pulling power stroke. Outside jaw grip adjustment, no need to take gun apart. Small head permits use in a confined space. One hand operation will pull and set rivets of 1/8, 5/32 and 3/16 in. diam. Furnished with three nose pieces: 1/8 in., 5/32 in., and 3/16 in.

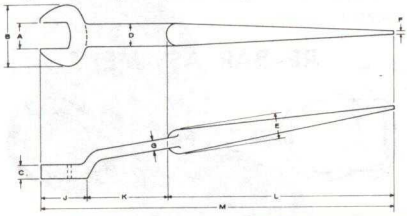
Cat. No.	Length	Approx. Wt. Each
63140	8¾ in.	1½ lb.

Replacement jaws for above riveter.

Cat. No.	Approx. Wt. Each
63145	⅛ lb.

KLEIN ERECTION WRENCHES

The ideal wrench for iron workers. Drop-forged from alloy steel, yellow finish. The round tapered handle is forged at an angle to provide ample clearance for the hand, yet keep the head in proper position for maximum nut tightening power. Available in heavy, regular and utility patterns.



When ordering wrenches be sure to check correct size.

Cat. No.	Bolt Size	Opening	Length	Approx. Wt. Each
3210	For U.S. Heavy Nut	½ in.	⅞ in.	12 in.	1 lb.
3211	For U.S. Heavy Nut	⅝ in.	1 1/16 in.	14¾ in.	1¾ lb.
3212	For U.S. Heavy Nut	¾ in.	1¼ in.	17 in.	2 lb.
3213	For U.S. Heavy Nut	⅞ in.	1 7/16 in.	17 5/16 in.	2¾ lb.
3214	For U.S. Heavy Nut	1 in.	1⅝ in.	17 11/16 in.	3¾ lb.
3220	For U.S. Regular Nut	½ in.	13/16 in.	12 in.	1 lb.
3221	For U.S. Regular Nut	⅝ in.	1 in.	14¾ in.	1¾ lb.
3222	For U.S. Regular Nut	¾ in.	1⅛ in.	17 in.	2 lb.
3223	For U.S. Regular Nut	⅞ in.	1⅜ in.	17 5/16 in.	2¾ lb.
3224	For U.S. Regular Nut	1 in.	1½ in.	17 11/16 in.	3¾ lb.
3231	For Utility Nut	⅝ in.	1⅛ in.	14¾ in.	1¾ lb.
3232	For Utility Nut	¾ in.	1 1/16 in.	17 in.	2 lb.

BOLT SIZE	A NOMINAL OPENING H U.S. HEAVY	A NOMINAL OPENING R U.S. REG.	A NOMINAL OPENING U UTILITY	B	C	D	E	F	G	J	K	L	M
½	⅞	13/16		1 3/16	⅜	⅝	⅝	⅛	¼	1 7/16	3	7 9/16	12
⅝	1 1/16	1	15/16	2 9/32	7/16	⅞	⅞	⅛	5/16	1¾	3	10	14¾
¾	1¼	1⅛	1 1/16	2½	9/16	1	1	⅛	⅜	2	4	11	17
⅞	1 7/16	1 5/16		3 1/16	1 1/16	1⅛	1⅛	3/16	½	2 5/16	4	11	17 5/16
1	1⅜	1½		3 17/32	1 1/16	1⅛	1⅛	3/16	½	2 11/16	4	11	17 11/16

ADJUSTABLE HEAD CONSTRUCTION WRENCH

This new Klein Construction Wrench saves time and effort for construction workers. The head is adjustable—one wrench fits all nuts and bolts to 1½ in. This means only one wrench is needed on the job. Drop-forged from alloy steel. Handle has continuous taper.

Cat. No.	Max. Capacity	Length	Approx. Wt. Each
3239	1½ in.	15 in.	3¾ lb.

TOOLS FOR CONSTRUCTION WORKERS

"SAFE-T" HEAD BULL PINS

An improved bull pin which increases efficiency. Fifteen degree angle on edges with all radii and fillets blended provides increased strength and reduces danger of chipping. Taper head flares to 1¼ inches and provides increased striking surface. Head reduces chance of pin slipping from the hand when aligning holes.

Below the head, shoulders have been forged to provide surface for applying wrench. No slipping or damaging pin. Long, even taper of pin reduces possibility of hang-up.

Cat. No.	Diam. Top	Length	Point	Av. Wt. Each
3255	1 ½ in.	13 in.	5/16 in.	2 lb.

Same Taper Head Design as 3255 but shorter. Length 10 in.

Cat. No.	Diam. Top	Length	Point	Av. Wt. Each
3256	1 ¾ in.	10 in.	¼ in.	1 ¾ lb.

BULL PINS

Made of alloy steel. Available in 12 and 15 inch lengths.

Cat. No.	Length	Diam.	Point	Approx. Wt. Each
3251	15 in.	1 1/16 in.	3/8 in.	2 ½ lb.
3252	15 in.	1 3/16 in.	7/16 in.	3 lb.
3257	12 in.	1 1/16 in.	3/8 in.	2 ½ lb.
3258	12 in.	1 3/16 in.	7/16 in.	2 ¾ lb.
3259	12 in.	1 5/16 in.	7/16 in.	3 ¼ lb.

CONNECTING BAR

Hexagonal fit-up bar, drop-forged. One end pointed, the other has 15° chisel end to give greater leverage.

Cat. No.	Hex.	Length	Approx. Wt. Each
3242	¾ in.	30 in.	4 ½ lb.

CONNECTING BAR

Similar to 3242 but chisel end is straight.

Cat. No.	Hex.	Length	Approx. Wt. Each
3240	¾ in.	30 in.	4 ½ lb.

BARREL TYPE DRIFT PINS

Tapers are uniform and blend into body diameter. Made of tough steel and will properly end pein in use for maximum safety. Length, taper and point size are approximate.

Cat. No.	Max. Diam.	OAL	Taper Lengh	Point Size	Approx. Wt. Each
3260	1 1/16 in.	7 ½ in.	2 in.	5/16 in.	¾ lb.
3261	1 3/16 in.	8 in.	2 ½ in.	7/16 in.	1 lb.
3262	1 5/16 in.	8 in.	2 ½ in.	½ in.	1 1/16 lb.
3263	1 1/16 in.	8 in.	2 ½ in.	9/16 in.	1 ½ lb.

RE-BAR ASSEMBLY

Designed only to position rod men and provide support permitting him to use both hands.
Assembly consists of drop-forged snap hook No. 457-5 with safety latch, Klein drop forged single bar circle "D" ring and swivel to assure freedom of movement. Length of assembly 15 in.

Cat. No.	Approx. Wt. Each
888	1 ¾ lb.

SNAP SAFETY BELT

Woven nylon belt 1¾ in. wide lined with chrome elk tanned leather. Removable back pad of 3 in. woven cotton mildew treated. Has drop-forged circle "D" ring to which is attached a Klein drop-forged safety hook No. 457-5, throat opening 1½ in. I.D. Drop forged tongue buckle and brass grommets.

Cat. No.	Approx. Wt. Each
5411	3 ½ lb.

APPROVALS: NYS-BSA 6640 CALIF. C-3761

ALL KLEIN-BUHRKE EQUIPMENT MEETS PERFORMANCE STANDARDS OF OSHA

The Occupational Safety and Health Act, OSHA, stipulates the required use of fall protection equipment. The act gives the Secretary of Labor authority to set National Standards of safety and to enforce these standards. All manufacturers, contractors and utility companies should have a thorough understanding of the requirements of OSHA as the penalties for non-compliance are severe.

All Klein-Buhrke quality-crafted equipment has been engineered for safety—designed to meet performance standards required under the rules and regulations of the Occupational Safety and Health Act of 1970 and established Federal standards.

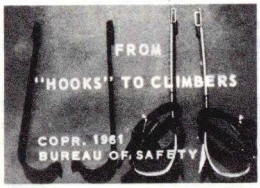
Klein-Buhrke manufactures a complete line of occupational safety belts and harness specifically designed for securing, suspending or retrieving a worker in or from a hazardous area. Consult your safety rules and regulations for recommended application of the individual equipment.

If you have any questions regarding these new safety laws we will be glad to assist you selecting fall arresting equipment and tools to meet your requirements which will also conform to the regulations of the Occupational Safety and Health Act. Write Mathias Klein & Sons, Inc., Chicago, Illinois 60645.

TRAINING FILMS AVAILABLE

Three 35 Millimeter Sound Slide Films, in color, are available for showing without charge from Mathias Klein & Sons, Inc. They were produced by, and may be purchased from, Middle West Service Company, 69 West Washington Boulevard, Chicago, Illinois 60602.

FROM "HOOKS" TO CLIMBERS



Film shows that modern climbers are designed for maximum safety and comfort. It depicts steps of manufacture and discusses some common misconceptions of climber techniques and maintenance. Running time—22 minutes.

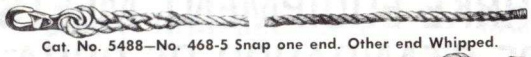
BELT SAFETY

Film shows proper use of body belts and safety straps. It illustrates defects to look for and defines limits of acceptability. Compares nylon and leather safety straps. Running time—22½ minutes.

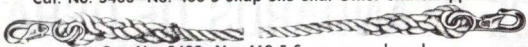
NOT GROUNDED—NOT DEAD

Film presents reasons for temporary grounding deenergized transmission and distribution lines. Program instruction method presents twenty questions requiring written answers. Instructions are on the label. Running time—19 minutes.

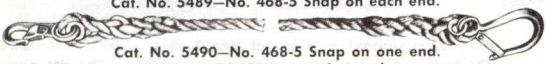
SAFETY LANYARDS



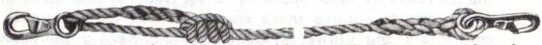
Cat. No. 5488—No. 468-5 Snap one end. Other end Whipped.



Cat. No. 5489—No. 468-5 Snap on each end.



Cat. No. 5490—No. 468-5 Snap on one end.
No. 457-5 Snap on other end.



Cat. No. 5492—Adjustable Sling with No. 468-5 Snap on each end.
And with Rope Adjuster

Lanyards come in 5 ft. lengths. Other lengths available on special order.

- Lanyards also available in 6 ft. lengths with standard snaps. Indicate "6 ft." after catalog number.
- **6 ft. lanyards may also be supplied with locking snap. This snap is designed to prevent accidental opening. It has two latches which must be actuated simultaneously. This can be done with one hand. Place "KL" before catalog number.**
- Lanyards may be supplied any length desired on special order.
- On special order ropes may be had spliced to rope loops or "D" rings. Other end may have No. 457-5 or 468-5 snap.
- Polypropylene lanyards are supplied in safety orange.

ROPE INFORMATION

The first time a rope is loaded, it generally undergoes some permanent change in length. This change is called **PERMANENT ELONGATION.**
Upon repeated application of the same load, most ropes elongate and recover elasticity with no further permanent elongation. This property is called **WORKING ELASTICITY.**
The following table gives typical values for various ropes subjected to normal working loads.

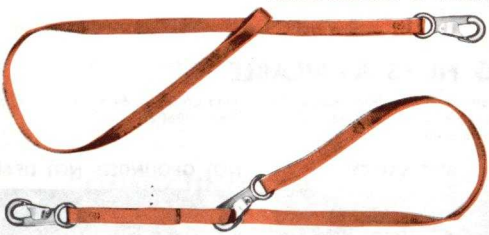
ROPE	DIAMETER	AVERAGE BREAKING STRENGTH (pounds)	Permanent Elongation Load = % Of Breaking Strength		Working Elasticity Strength-Standard Lay	
			20%	30%	20%	30%
Nylon (Filament)	1/2"	6400	4.0	7.0	22.0	24.0
Nylon (Spun)	9/16"	5900	4.0	7.0	22.0	24.0
Polypropylene	1/2"	5600	2.5	3.0	12.0	13.0
Aircraft Cable	7/32"	5600	Preformed		Practically None	

Cat. No.	Rope	Approx. Wt. Each
5488N-5	Nylon Spun	1 1/2 lb.
5488N-6	Nylon Spun	1 1/2 lb.
5489C-5	Aircraft Cable	1 7/8 lb.
5489C-6	Aircraft Cable	1 7/8 lb.
5489N-5	Nylon Filament	1 1/8 lb.
5489N-6	Nylon Filament	1 1/8 lb.
5489P-5	Polypropylene	1 lb.
5489P-6	Polypropylene	1 lb.
5490N-5	Nylon Filament	2 1/2 lb.
5490N-6	Nylon Filament	2 1/2 lb.
5492N-5	Nylon Filament	2 1/2 lb.
5492N-6	Nylon Filament	2 1/2 lb.

WHEN ORDERING BE SURE TO GIVE OVERALL LENGTH DESIRED

NYLON WEBBING LANYARDS

TENSILE STRENGTH OF WEBBING 9000 LB.



Made from 1 in. orange impregnated nylon webbing. Has loop at one end to slip on 2 in. belt and the other end is equipped with a No. 468-5 drop-forged snap hook.

Cat. No.	Length	Max. Safe Load	Approx. Wt. Each
5439-W-5		5000 lbs.	1 1/4 lb.
5439-W-6		5000 lbs.	1 1/4 lb.

Similar to 5439-W but both ends are equipped with No. 468-5 drop-forged snap.

Cat. No.	Length	Max. Safe Load	Approx. Wt. Each
5489-W-5		5000 lbs.	1 1/2 lb.
5489-W-6		5000 lbs.	1 1/2 lb.

ADJUSTABLE NYLON WEBBING LANYARDS

An adjustable lanyard 10 ft. long. Made of orange impregnated nylon webbing. Has drop-forged snap No. 468-5 on one end. The other end has a loop to slip on a 2 in. belt. Width 1 in. Adjustable from 6½ ft.

Cat. No.	Max. Safe Load	Approx. Wt. Each
5493-W-10	5000 lbs.	1 1/2 lb.

Similar to 5493-W-10 but both ends are equipped with No. 468-5 drop-forged snap hooks. Length 10 ft. Adjustable from 6½ ft.

Cat. No.	Max. Safe Load	Approx. Wt. Each
5492-W-10	5000 lbs.	1 3/4 lb.

BELT SIZES (WAIST)	
Unless otherwise specified standard 36 in. to 44 in. will be shipped.	
SMALL	32 to 40 in.
STANDARD	36 to 44 in.
LARGE	40 to 48 in.
EXTRA LARGE	44 to 52 in.
Additional charge for extra large.	
STANDARD "D" TO "D" 22 IN.	

SERIAL-DATE TAG

All Klein-Buhrke Belts and Harness are identified with a metal tag permanently attached indicating catalog number, serial number and date of manufacture. This information aids the user in safety, quality assurance and inspection procedures.

ALL KLEIN-BUHRKE BELTS MEET OSHA SPECIFICATIONS

5481

5480-NCP Pad with two "D" rings

Pouches for illustration. Not included in assembly.

MODULAR SAFETY BELT

A practical concept in a safety belt. The exclusive modular design permits its use as a tool belt or a safety belt. By combining the features of both it makes the wearing of two belts unnecessary.

The complete assembly consists of a belt, body pad with two "D" rings and a 10 ft. adjustable lanyard. The belt may be used as a tool belt without pad and as a safety belt with pad and "D" rings.

BELT—woven nylon web with drop-forged tongue buckle and brass grommets. Width 1¾ in.

BODY PAD—Cushion of chrome elk tanned leather padded with sponge rubber. Nylon saddle holds two drop-forged circle "D" rings.

LANYARD—10 ft. adjustable nylon web, friction buckle and two drop-forged snap hooks.

Cat. No.	Description	Approx. Wt. Each
5481	Assembly includes belt, pad and lanyard	4¼ lbs.
APPROVALS: NYS-BSA 6643 CALIF. C-3764		
5480	Belt only (See illustration below)	1 lb.
APPROVALS: NYS-BSA APPLIED FOR CALIF. C-3764		
5480-NCP	Pad with two "D" rings	1½ lbs.
5492-W-10	10 ft. adjustable lanyard	7 lbs.

5480

5480-1D

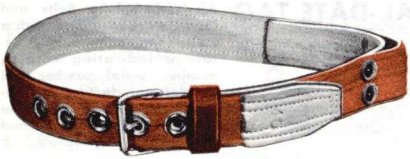
5480-2D

5480-3D

NYLON WAIST BELT

Woven nylon with drop-forged tongue buckle and brass grommets. Width 1¾ in. Safety orange.

Cat. No.		Approx. Wt. Each
5480		1 lb.
APPROVALS: NYS-BSA APPLIED FOR CALIF. C-3764		
5480-1D	Same as above but equipped with one drop-forged circle "D" ring.	1¼ lb.
APPROVALS: NYS-BSA 6641 CALIF. C-3764		
5480-2D	Same as 5480 but equipped with two drop-forged circle "D" rings.	1½ lb.
APPROVALS: NYS-BSA 6641 CALIF. C-3764		
5480-3D	Same as 5480 but equipped with three drop-forged circle "D" rings.	1¾ lb.
APPROVALS: NYS-BSA 6641 CALIF. C-3764		



NYLON WAIST BELT

Combination woven nylon belt 1¾ in wide, lined with chrome elk tanned leather. Special weave of webbing permits awling for insertion of brass grommets. Equipped with rope loop which may be used as a hammer loop where safety line is not required.

Cat. No.	Approx. Wt. Each
5440	1¼ lb.

APPROVALS: NYS-BSA APPLIED FOR CALIF. C-3761

NYLON WAIST BELT WITH ROPE

Same belt as 5440 but furnished with 12 ft. ½ in. nylon rope spliced into the rope loop. Free end equipped with No. 468-5 snap.

Cat. No.	Approx. Wt. Each
5440-R	2¾ lb.

APPROVALS: NYS-BSA APPLIED FOR CALIF. C-3761

NYLON BELT WITH "D" RING

Same as 5440 but is equipped with drop-forged circle "D" ring, attached to center of back instead of rope loop.

Cat. No.	Approx. Wt. Each
5441	1½ lb.

APPROVALS: NYS-BSA 6640 CALIF. C-3761

NYLON BELT WITH 2 "D"s

Same as 5440 but is equipped with two drop-forged circle "D" rings, attached one on each side.

Cat. No.	Approx. Wt. Each
5442	2 lb.

APPROVALS: NYS-BSA 6640 CALIF. C-3761

NYLON WAIST BELT WITH 3 "D"s

Same as 5440 but is equipped with three drop-forged circle "D" rings.

Cat. No.	Approx. Wt. Each
5443	2½ lb.

APPROVALS: NYS-BSA 6640 CALIF. C-3761

4 INCH NYLON BELT

Made of neoprene impregnated nylon. Has fixed drop-forged circle "D" ring in back. Cushion is 4 in. wide tapered on the sides. Waist belt is 1¾ in. wide made of six ply "Klein-Kord."

Cat. No.	Approx. Wt. Each
5412-N	2 lb.

APPROVALS: CALIF. APPLIED FOR

LEATHER BILLET

Any web belt may be had with a forked tongue buckle and wrap around leather billet as illustrated.

BELT PAD

Made of 4 in. cotton mildew treated. Available in two sizes. Recommended for maximum comfort.

Cat. No.	Size	Approx. Wt. Each
5445	30 in. long	2 lb.
5445-S	22 in. long	1 ¾ lb.

LIGHT FLEXIBLE BELT

A lightweight, flexible belt of 1¾ in. woven nylon webbing. Drop-forged "D" ring attached to left side has leather liner around the bar which prevents excessive wear of webbing. Equipped with friction buckle.

Cat. No. 5444 — Approx. Wt. Each 1 lb.

APPROVALS: NYS-BSA APPD. FOR CALIF. APPD. FOR

5444-LB — 1 ⅛ lb.
Same as 5444 but equipped with drop-forged circle "D" ring, forked tongue buckle and wrap around leather billett.

APPROVALS: NYS-BSA APPLIED FOR CALIF. C-3762

"KLEIN-KORD" NYLON BELT

A strong belt made of "Klein-Kord" 1¾ in. wide. Drop-forged circle "D" ring attached to left side. Drop-forged forked tongue buckle.

Cat. No. 5444-N — Approx. Wt. Each 1 lb.

APPROVALS: NYS-BSA APPD. FOR CALIF. APPD. FOR

"D" RING BELT ADJUSTABLE

Made of woven nylon webbing 1¾ in. wide. Drop-forged single bar, circle "D" ring is inserted behind waist webbing and is held in place by slide that permits adjustment to any position. Equipped with friction buckle.

Cat. No. 5475 — Approx. Wt. Each 1 lb.

APPROVALS: NYS-BSA APPD. FOR CALIF. APPD. FOR

5475-LB — Same as 5475 but has forked tongue buckle and wrap around leather billet.

APPROVALS: NYS-BSA APPLIED FOR CALIF. C-3762

ADJUSTABLE BELT 2"D"s

Same belt as 5475 but equipped with two adjustable, drop-forged "D" rings.

Cat. No. 5475-2D — Approx. Wt. Each 1 lb.

APPROVALS: NYS-BSA APPD. FOR CALIF. APPD. FOR

5475-LB-2D — Same as 5475-2D but has forked tongue buckle and wrap around leather billet.

APPROVALS: NYS-BSA APPLIED FOR CALIF. C-3762

FLEXIBLE BELT 2"D"s

Made of woven nylon webbing 1¾ in. wide. Section of webbing runs from "D" to "D" then folds over and is sewn to the main waist belt. Leather liner around bar of "D" rings prevents excessive wear. Equipped with two drop-forged "D" rings and friction buckle.

Cat. No.	Approx. Wt. Each
5446	1⅜ lb.

APPROVALS: NYS-BSA APPD. FOR CALIF. APPD. FOR

5446-LB	1½ lb.

Same as 5446 but has drop-forged forked tongue buckle and wrap around leather billet.

APPROVALS: NYS-BSA APPLIED FOR CALIF. C-3762

FABRIC SAFETY BELT

Made of woven nylon webbing 1¾ in. wide. 3 in. cotton webbing mildew treated pad stitched to the nylon waist belt. Equipped with two drop-forged "D" rings and friction buckle.

Cat. No.	Approx. Wt. Each
5447	1½ lb.

APPROVALS: NYS-BSA 6569 CALIF. APPLIED FOR

5447-LB Same as 5447 but has drop-forged forked tongue buckle and wrap around leather billet.

APPROVALS: NYS-BSA 6569 CALIF. C-3762

NYLON SAFETY BELT 1 "D"

Similar in design and construction to 5447 but is equipped with one "D" ring.

Cat. No.	Approx. Wt. Each
5447-1D	1¼ lb.

APPROVALS: NYS-BSA 6569 CALIF. APPLIED FOR

5447-LB-1D Same as 5447-1D but has drop-forged forked tongue buckle and wrap around leather billet.

APPROVALS: NYS-BSA 6569 CALIF. C-3762

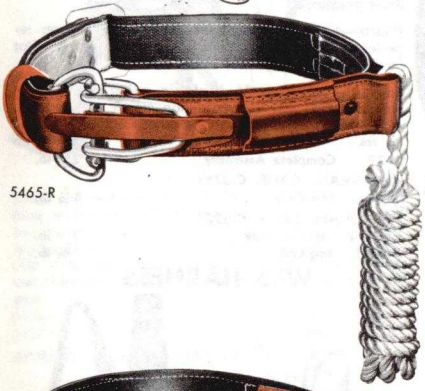
SNAP SAFETY BELT

Woven nylon belt 1¾ in. wide lined with chrome elk tanned leather. Removable back pad of 3 in. woven cotton mildew treated. Has drop-forged circle "D" ring to which is attached a Klein drop-forged safety hook No. 457-5, throat opening 1½ in. I.D. Drop forged tongue buckle and brass grommets.

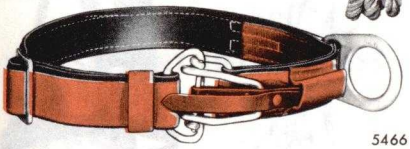
Cat. No.	Approx. Wt. Each
5411	3½ lb.

APPROVALS: NYS-BSA 6640 CALIF. C-3761

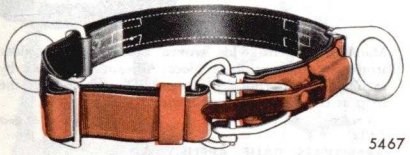
5465



5465-R



5466



5467

TREE TRIMMER'S BELT

Made of 1¾ in. wide 6 ply Klein-Kord nylon designed to distribute the weight of the wearer along the leg straps as well as the body strap. Equipped with drop-forged circle "D" ring free running across the front to which a safety line can be attached. Adjustable for sizes 36 in. to 46 in.

5410

Cat. No.	Approx. Wt. Each
5410	2¼ lb.

ESCAPE BELT

Emergency escape belt made of 1¾ in. nylon webbing in safety orange sewn to a 2 in. cotton webbing pad, mildew treated. Equipped with quick release buckle. Furnished with rope loop to which a lanyard may be attached.

Cat. No.	Approx. Wt. Each
5465	2½ lb.

APPROVALS: NYS-BSA APPLIED FOR CALIF. C-3763

ESCAPE BELT WITH ROPE

Same construction as 5465 but supplied with twelve feet of ½ in. nylon rope spliced into the rope loop. Free end whipped.

Cat. No.	Approx. Wt. Each
5465-R	2½ lb.

APPROVALS: NYS-BSA APPLIED FOR CALIF. C-3763

ESCAPE BELT WITH "D" RING

Same design as 5465 but equipped with drop-forged circle "D" ring on left side instead of rope loop.

Cat. No.	Approx. Wt. Each
5466	2 lb.

APPROVALS: NYS-BSA 6642 CALIF. C-3763

ESCAPE BELT WITH TWO "D" RINGS

Same design as 5465 but equipped with two drop-forged circle "D" rings one on each side.

Cat. No.	Approx. Wt. Each
5467	2 lb.

APPROVALS: NYS-BSA 6642 CALIF. C-3763

THREE INCH WIDE ESCAPE BELTS

These belts are the same design as the ones shown above but are made of 1¾ in. nylon webbing in safety orange and sewn to a 3 in. cotton webbing pad, mildew treated.

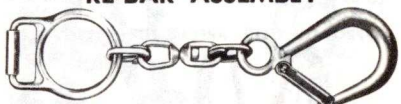
Cat. No.		Approx. Wt. Each
5462	Same as 5465. Pad is 3 in. wide and has rope loop.	2lbs.
5462-R	Same as 5462 but has 12 ft. ½ in. nylon rope spliced into rope loop.	3 lbs.

APPROVALS: NYS-BSA APPD. FOR CALIF. C-3763

5463	Same as 5462 but has "D" ring on left hand side instead of rope loop.	3 lbs.
5464	Same as 5462 but has 2 circle "D" rings one on each side.	3 lbs.

APPROVALS: NYS-BSA 6644 CALIF. C-3763

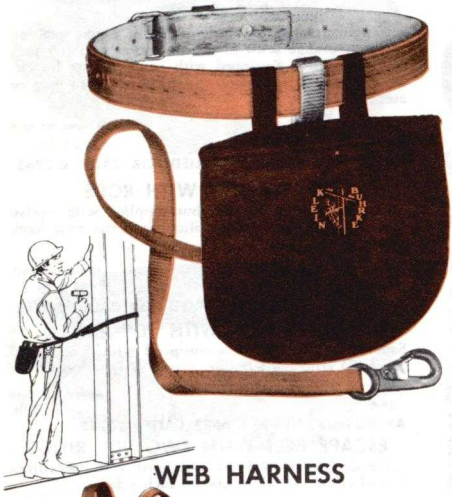
RE-BAR ASSEMBLY



Designed only to position rod men and provide support permitting him to use both hands.
Assembly consists of drop-forged snap hook No. 457-5 with safety latch, Klein drop forged single bar circle "D" ring and swivel to assure freedom of movement. Length of assembly 15 in.

Cat. No.	Approx. Wt. Each
888 Throat Opening 1½ in. I.D. 1 ¾ -lb.	

SAFE GUARD BELT



A complete combination of belt, pouch and lanyard designed as a unit. Lanyard tucks into pouch out of the way when not in use. Pouch is fastened to belt by means of loops and may be placed in any desired position. Tools or other equipment may be carried on belt by loops or pockets fastened to belt.

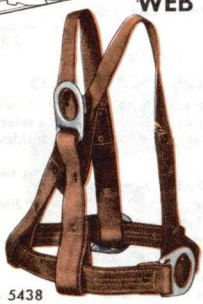
Belt—1¾ in. wide combination of chrome tanned leather and woven orange nylon. Single tongue buckle. Brass grommets.

Pouch—designed to hold lanyard. Made of water repellent canvas. Has ¼ in. rope sewn in top. Dot fastener for closing. Size 10 x 11 in.

Lanyard—5 ft. long. Made of 1 in. nylon web. Tensile strength 9000 lbs. Has belt loop at one end and No. 468-5 drop-forged snap at the other.

Cat. No.		Approx. Wt. Each
5439	Complete Assembly	2½ lb.
APPROVALS: CALIF. C-3761		
5439-B	Belt Only	1¼ lb.
APPROVALS: CALIF. C-3761		
5439-W	Lanyard Only	1 lb.
5439-P	Bag Only	⅜ lb.

WEB HARNESS



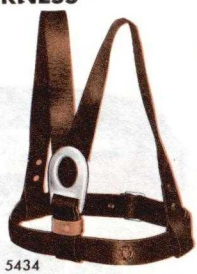
5438

Ideal for use in quarries, tanks and other places where it may be necessary to lift a man out quickly. Made of 1¾ in. wide woven nylon web with three drop-forged "D" rings and friction buckle.

Cat. No.	Approx. Wt. Each
5438	2⅝ lb.

APPROVALS: CALIF. APPLIED FOR

WEB HARNESS



5434

Made of 1¾ in. wide woven nylon web. Shoulder straps are one continuous piece. Adjustment is made by raising and lowering drop-forged "D" ring through the loop at the back. Equipped with friction buckle.

Cat. No.	Approx. Wt. Each
5434	1¼ lb.

APPROVALS: CALIF. APPLIED FOR

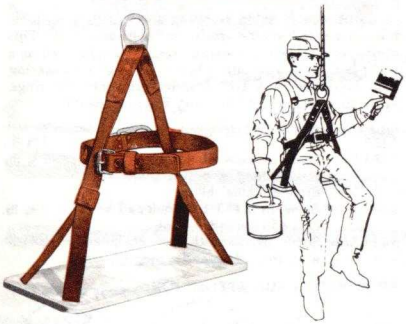
BELT SUSPENDERS

Made of soft latigo leather. Fully adjustable front and back. Adjustable loops at the end of all three straps permit use on any width belt.

Cat. No.	Approx. Wt. Each
5413	1 lb.

NOT A SAFETY BELT

BOSUN'S CHAIR

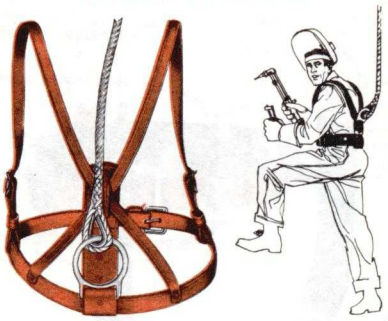


Slings and belt are made of 1¾ in. woven nylon webbing with extra drop-forged circle "D" ring on the waist belt for attaching independent life line. Wood seat is 12 x 24 in., one inch thick, reinforced on the underside with metal cleats. Sling is reeved through four seat holes and cleats so as to cross on the underside of seat.

Cat. No.	Approx. Wt. Each
5427-N	8¼ lb.

APPROVALS: BELT NYS-BSA 6641 CALIF. C-3764

NYLON HARNESS



Made of "Klein-Kord" nylon—chest strap 1¾ in. wide. Adjustable 36 in. to 44 in. Shoulder straps are 1 in. wide and are adjustable. Rear support strap equipped with drop-forged circle "D" ring. 25 ft. of ½ in. nylon rope permanently attached to "D" ring. Other end whipped.

5409-N	8¼ lb.

APPROVALS: CALIF. APPLIED FOR

FULL SUPPORT LIFT HARNESS

Harness is made of woven nylon webbing straps—reinforced with chrome elk tanned leather for grommets and "D" pad. Harness is designed to distribute the impact forces of a fall over the thighs, buttock, chest and shoulders. Single bar drop-forged circle "D" ring at back for attaching a safety line. Forged tongue buckles for easy adjustment. Shoulder and leg straps permanently stitched in position to waist belt for comfort.

Cat. No.	Approx. Wt. Each
5436	4 lb.

APPROVALS: CALIF. C-3765

MANHOLE HARNESS

Similar in design to 5436 Full Support Lift Harness but has adjustable triangular drop-forged rings on each shoulder to permit quick rescue of a workman in a manhole or other confined space.

Cat. No.	Approx. Wt. Each
5450	4¼ lb.

APPROVALS: CALIF. APPLIED FOR

WOVEN NYLON MULTIPURPOSE SAFETY HARNESS

Made of woven nylon webbing stitched to 3 in. wide mildew-treated cotton pads on belt and seat. This multi-purpose belt has many uses. It may be used as a waist belt, as a positioning belt or lifting and lowering belt. Equipped with two drop-forged circle "D" rings, knife snap and glove bag ring. Friction buckle.

Cat. No.		Approx. Wt. Each
5483		2 ⅜ lb.
5483-LB	Same as above but equipped with forked tongue buckle and wrap-around leather billet.	2 ¾ lb.
5483-S	Same as 5483 but equipped with No. 456 spreader hook	2 ¾ lb.
5483-S-LB	Same as 5483-LB but equipped with No. 456 spreader snap.	2 ⅞ lb.

APPROVALS: CALIF. APPLIED FOR

TOWER HARNESS

Provides maximum safety for workmen on ladders, transmission towers etc. Made of 1¾ in. woven nylon web. Complete harness assembly consists of:

(1) Harness designed with adjustable shoulder straps, waist belt with forked tongue buckle. Shock load is divided between two areas of the body reducing the impact forces of a free fall.

(2) 18 ft. of ½ in. nylon adjustable lanyard with shock absorber and 468-L locking snap at each end.

(3) 7/32 in. steel aircraft cable, 21 in. eye to eye, for attaching around tower member.

Cat. No.		Approx. Wt. Complete
5452	Complete Assembly	6 ½ lb.

Cat. No.		Approx. Wt. Each
5452--H	Harness Only as illustrated	2 ⅝ lb.

APPROVALS: NYS-BSA 5749 CALIF. C-3765

EXTENSION STRAPS—for larger sizes. Not included in assembly.

Cat. No.		Approx. Wt. Each
5452-E1	12 in. Chest Extension Strap	¾ lb.
5452-E2	12 in. Waist Extension Strap	¾ lb.

RESCUE AND WORK HARNESS

A parachute type harness designed to keep workmen in upright position when V sling is held taut. Made of 1¾ in. nylon webbing. Comes with 5 ft. V sling and 468-5 snaps. Harness adjustable for any type figure.

Cat. No.		Approx. Wt. Each
5423		7 lb.
5423-NS	Same as above but equipped with non-sparking hardware.	7 lb.

NON-METALLIC SLINGS

5600-RE Return Eye Sling. 7 in. Eye. Wear Pads Available.

5601-E Endless Sling. 7 in. overlap at sewing.

5602-DE Double Eye Sling. 7 in. Eye. 7 in. overlap at sewing.

5603-DE Double Eye Single Ply Sling. 7 in. Eye. 7 in. overlap at sewing.

3 FT. LENGTH STANDARD — OTHER LENGTHS AVAILABLE. ALL SLINGS TAGGED WITH SAFE WORKING LOADS

Made of high strength specially woven orange nylon web with a telltale yellow center stripe. Tensile strength approximately 8,000 lb. per inch of width. Available in 1 in., 2 in., 3 in. and 4 in. web. Where extra abrasion resistance is required the eyes and contact sections are lined with tough latigo leather.

FLEXIBILITY. Klein-Buhrke Slings conform to the load and bend across the width of the sling. Rigged in a basket hitch, they provide a gentle flexing action around the load; rigged in a choke hitch, they conform to the arcs of the load, giving maximum support.

SAFETY. Because they are made of soft, flexible nylon these slings have no sharp edges to cut into the load or endanger the worker's hands. Because of their high gripping action there is little danger of the load slipping.

Suggested formula for determining safe working load:

$$\frac{\text{Breaking Strength}}{\text{Safety Factor}} = \text{Safe Working Load}$$

A basket hitch permits slightly more than double the safe working load of a choke hitch.

Cat. No.	Width	Type	Approx. Wt. Each
5600-RE-2	2″	Return Eye	1⅜ lb.
5600-RE-2DT	2″	Return Eye	2½ lb.
5600-RE-4	4″	Return Eye	2 lb.
5600-RE-4DT	4″	Return Eye	2⅛ lb.
5601-E-1	1″	Endless	⅜ lb.
5601-E-1DT	1″	Endless	1¼ lb.
5601-E-2	2″	Endless	1 lb.
5601-E-2DT	2″	Endless	1⅛ lb.
5601-E-3	3″	Endless	2¼ lb.
5601-E-4	4″	Endless	2¾ lb.
5602-DE-1	1″	Double Eye Standard	¾ lb.
5602-DE-2	2″	Double Eye Standard	1⅛ lb.
5602-DE-3	3″	Double Eye Standard	2¼ lb.
5602-DE-4	4″	Double Eye Standard	2¾ lb.
5603-DE-1	1″	Double Eye Single Ply	⅝ lb.
5603-DE-2	2″	Double Eye Single Ply	1 lb.
5603-DE-3	3″	Double Eye Single Ply	2 lb.
5603-DE-4	4″	Double Eye Single Ply	2¾ lb.

SAFE WORKING LOAD

Safety Factor 5 to 1

RETURN EYE TYPE		
WIDTH	NYLON	
	BASKET	CHOKE
2 in.	6400	1600
2 in. DT	11500	2800
4 in.	12800	3200
4 in. DT	23000	5700

ENDLESS TYPE		
WIDTH	NYLON	
	BASKET	CHOKE
1 in.	6400	1600
1 in. DT	11500	2800
2 in.	12800	3200
2 in. DT	23000	5700
3 in.	19200	4800
4 in.	25600	6400

DOUBLE EYE STANDARD		
WIDTH	NYLON	
	BASKET	CHOKE
1 in.	6400	1600
2 in.	12800	3200
3 in.	19200	4800
4 in.	25600	6400

DOUBLE EYE SINGLE PLY		
WIDTH	NYLON	
	BASKET	CHOKE
1 in.	3200	800
2 in.	6400	1600
3 in.	9600	2400
4 in.	12800	3200

STANDARD COLOR ORANGE WITH YELLOW CENTER STRIPE

POLE SLING

Made of nylon web stitched with nylon thread 1¾ in. wide. Copper rivets with burrs at the point of wear on the pole. Unlimited uses where a running loop wrap around pole is desired. Non-conductive, not affected by oil or creosote. Resistant to moisture, mildew and fungi.

Cat. No.	Safe Load	Length	Approx. Wt. Each
5606	Choke Hitch 500 lb. Basket Hitch 1,200 lb.	30 in.	1.2 lb.

Other Sizes to Order

CROSSARM SLING

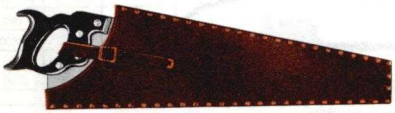
Made of 12 plies of nylon laminated together with neoprene and pre-formed for ease in placing around the crossarm prior to vulcanization. 1 in. wide. "D" rings ½ in. welded wire securely riveted with copper rivets and burrs. Non-conductive, not affected by oil or creosote. Resistant to moisture, mildew and fungi. Can be cleaned with regular solvents.

Cat. No.	Safe Load	Length	Approx. Wt. Each
5607	Basket Hitch 1,000 lb.	16½ in.	.6 lb.

Other Sizes to Order

FIBER AND LEATHER GUARDS

Guards are made of vulcanized fiber or harness leather as specified. Securely riveted and equipped with adjustable web straps. Guards protect the user from cutting edges and also protect the edges in transfer and storage.



Cat. No.	Description	Approx. Wt. Each
5502	26" Hand Saw Guard, Fiber	1 ¼ lb.
5503	30" Docking Saw Guard, Fiber	1 ⅜ lb.
5505	26" Pruning Saw Guard, Fiber	1 lb.
5506	24" Tuttle Tooth Pruning Saw Guard, Fiber	⅞ lb.

Cat. No.	Description	Approx. Wt. Each
5507	Pole Pruning Saw Guard, Fiber	¼ lb.

Cat. No.	Description	Approx. Wt. Each
5508	Cable Saw Guard, Fiber	½ lb.

5509

5524

Cat. No.	Description	Approx. Wt. Each
5509	3 ½ Lb. Axe or Hatchet Guard, Fiber	⅛ lb.
5509-L	Same as above except made of harness leather	⅜ lb.

Cat. No.	Description	Approx. Wt. Each
5524	Double bit Axe Guard, Fiber	½ lb.
5524-L	Double bit Axe Guard, Leather	1 lb.

Cat. No.	Description	Approx. Wt. Each
5511	Bush Hook Guard, Fiber	½ lb.

Cat. No.		Approx. Wt. Each
5510	Tree Trimmer Guard No. 11 Head	⅛ lb.
5512	Tree Trimmer Guard No. 12 Head	⅛ lb.

Cat. No.	Description	Approx. Wt. Each
5514	Ditch Bank Blade Guard with Hinged Side	¾ lb.

Cat. No.	Description	Approx. Wt. Each
5515	2" Width Chisel Guard, Fiber	⅜ lb.

Cat. No.	Description	Approx. Wt. Each
5517	Cant Hook Guard, Fiber	½ lb.

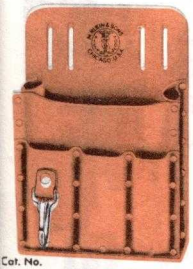
Cat. No.	Description	Approx. Wt. Each
5520-L	Ladder Spur Guard, Leather. Web straps for attaching to bottom rung.	⅜ lb.

Cat. No.	Description	Approx. Wt. Each
5522	26" Curved Pruning Saw Guard, Fiber Will accomodate shorter lengths.	1 lb.
5522-L	Similar to above but made of leather and equipped with ring and snap for attaching to tree trimmer saddle. Leather is usually preferred in tree work.	1 ¾ lb.

Cat. No.	Description	Approx. Wt. Each
5574-L	Splitting or Chipping Knife Guard, Leather. Fits No. 1515-1 Knife.	¼ lb.

Cat. No.	Description	Approx. Wt. Each
5574-S	Splitting or Chipping Knife Guard, Leather. Fits No. 1515-S Knife.	¼ lb.

ELECTRICIANS POCKETS



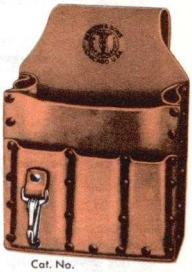
Cat. No. 5127

A high-quality leather pouch specially designed for electricians. Has extra large gusseted utility pocket, three plier pockets, two screwdriver pockets and knife snap.

Cat. No.	Overall Size	Approx. Wt. Each
5127	7 in. x 10 in.	⅞ lb.

A high-quality leather pocket identical with 5127 but made with a tunnel loop in place of slots.

Cat. No.	Overall Size	Approx. Wt. Each
5127T	7 in x 10 in.	1 lb.



Cat. No. 5127T

at. No. 5126

High-quality leather pouch specially designed for electricians. Has large gusseted utility pocket, two plier pockets, two screwdriver pockets and a knife snap.

Cat. No.	Overall Size	Approx. Wt. Each
5126	6½ in. x 8½ in.	⅝ lb.

Cat. No. 5166

Made of high-quality leather. Provides room for an extraordinary number of tools. Four large gusseted utility pockets. Two plier pockets. Two pockets for screwdrivers. In addition a knife snap is provided.

Cat. No.	Overall Size	Approx. Wt. Each
5164	8¾ in. x 10 in.	1⅛ lb.

Cat. No. 5164

A utility pocket of finest chrome leather—soft and pliable. Has two large utility gusseted pockets, two screwdriver pockets, hammer loop, three plier pockets and one chain tape thong. Tunnel loop for attaching to belt.

Cat. No.	Overall Size	Approx. Wt. Each
5166	7 in. x 10 in.	⅞ lb.

Cat No. 5168

This high quality leather pouch is curved to fit the hip providing greater comfort. Large utility pocket gives ample room for electricians tools. A smaller utility pocket, two plier pockets, and two screwdriver pockets are provided. Pouch has chain tape thong and knife snap. Slots permit fastening to belt.

Cat. No.	Size	Approx. Wt. Each
5168	8½" x 11"	1 lb.

Here is a telephone installer's pocket, made of highest grade harness leather, riveted throughout to assure long life. Ten separate compartments provide places for a wide variety of pliers, screwdrivers and other tools. Equipped with ring and tape thong. Slots permit fastening to belt.

Cat. No.	Size	Approx. Wt. Each
5190	8¾ in. x 6 in.	⅞ lb.

Cat. No. 5190

Drawing indicates arrangement of pockets

Electrician's pouch, curved to fit the hip, assuring greater comfort. Made of genuine, high quality leather. Has large utility pocket, two plier pockets and knife snap. Slots permit fastening to belt.

Cat. No.	Size	Approx. Wt. Each
5150	7½" x 9"	⅝ lb.

Cat. No. 5150

SCISSORS POCKETS

A high quality strap leather pocket designed to hold electrician's scissors. Loop provided at back of pocket for attaching to waist belt.

Cat. No.	Size	Approx. Wt. Each
5100	8 in. x 2¼ in.	⅛ lb.

Designed to fit scissors Nos. 2100-5 and 2100-7

Scissors pocket. Made of strap leather riveted with clip on back for attaching to belt. Also has slots through which belt may be inserted.

Cat. No.	Size	Approx. Wt. Each
5101	6½ in. x 1½ in.	⅛ lb.

Designed to fit scissors Nos. 2100-5 and 2100-7

KNIFE POCKET

Harness leather pocket for holding skinning knife. Slotted for attaching to belt. Can also be carried in hip pocket.

Cat. No.	Size	Approx. Wt. Each
5163	3 in. x 9 in.	⅜ lb.

Designed to fit Skinning Knife No. 1560-3

KNIFE POCKET

Similar to 5163 but designed to hold 44101 Utility Knife.

Cat. No.	Size	Approx. Wt. Each
5185	3 x 8 in.	¼ lb.

Designed to fit Utility Knife No. 44100

FLASHLIGHT POCKET

A pocket of high-quality strap leather designed to hold a two cell flashlight.

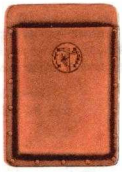
Cat. No.	Size	Approx. Wt. Each
5129	3 in. x 8 in.	¼ lb.

VOLTAGE TESTER POCKET

A top quality leather pouch designed to hold most standard voltage testers. Strap with snap prevents meter jolting out of pocket.

Cat. No.	Size	Approx. Wt. Each
5138	3 in. x 8 in.	⅜ lb.

LEATHER TOOL POUCHES



Made of harness leather. Ideal for carrying pliers or other tools in the hip pocket. Prevents wear and cutting of clothes or possible injury.

Cat. No.	Size	Approx. Wt. Each
5111	5 in. x 7 in.	⅜ lb.

A strap leather tool pouch having large rear pockets for assorted tools and two front pockets for diagonal and long nose pliers. Has loop for hanging on belt.

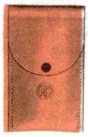
Cat. No.	Size	Approx. Wt. Each
5149	6" x 7"	⅜ lb.

A strap leather pouch for such tools as pliers, screwdrivers, etc. Individual pockets for each tool. Has loop for hanging on belt.

Cat. No.	Size	Approx. Wt. Each
5148	8" x 9"	½ lb.

Strap leather utility pouch. 1" reinforced gusset. Has 2" outside pockets.

Cat. No.	Size	Approx. Wt. Each
5145	5¼ in. x 7 in.	½ lb.



SMALL TOOL POCKET

Small strap leather pouch that can be used on belt or carried in pocket. Will hold a variety of small tools. Flap may be snapped back to form belt loop.

Cat. No.	Size	Approx Wt. Each
5175	4½" x 7"	⅜ lb.

POUCHES FOR LINEMEN

Made of high-quality harness leather. An all-purpose pocket for pliers, folding rule and screwdriver. Openings at bottom. Slotted and punched for easy attachment to belt.

Cat. No.	Size	Approx. Wt. Each
5118-PRS	6 ½ in. x 8 ¾ in.	¾ lb.

Made of top quality harness leather. Four pockets to hold plier, rule, screwdriver and adjustable wrench. Has two way knife snap. Slotted and punched for easy attachment to belt. No exposed rivets in back.

Cat. No.	Size	Approx. Wt. Each
5118-C	6 ½ in. x 8 in.	⅛ lb.

Made of heavy harness leather. Slotted and punched for easy attachment to belt. One pocket for side cutting plier and a separate pocket for 6-ft. rule.

Cat. No.	Size	Approx. Wt. Each
5118-R	4 ¾ in. x 8 in.	⅝ lb.

Made of heavy harness leather, slotted and punched for easy attachment to belt. Open at bottom. Pocket for side cutting plier and one for screwdriver.

Cat. No.	Size	Approx. Wt. Each
5118-S	4 in. x 8 in.	½ lb.

Similar in design and construction to 5118-R but has tunnel loop to permit use on wider belt.

Cat. No.	Size	Approx. Wt. Each
5118-RT	4 ½ in. x 12 ½ in.	¾ lb.

Made of top quality leather slotted and punched for attachment to belt. Has pocket for side cutting plier and one for skinning knife.

Cat. No.	Size	Approx. Wt. Each
5118-K	4 ½ in. x 9 in.	½ lb.

PLIER POCKETS

Made of high-quality harness leather. Has slots through which belt may be inserted or it can be riveted on to tab on body belt. Nose protrudes through opening at bottom. Two sizes available, one will hold 6 or 7 inch plier, the other 8 or 9 inch plier.

Cat. No.	Size	Approx. Wt. Each
5107-6	3 ½ in. x 8 ½ in.	¼ lb.
5107-9	3 ¾ in. x 11 in.	⅜ lb.

Similar in design to 5107-6 and 5107-9 but has tunnel loop to permit slipping on wider belt.

Cat. No.	Size	Approx. Wt. Each
5107-6T	3 ½ in. x 10 in.	¼ lb.
5107-9T	3 ¾ in. x 11 ½ in.	⅝ lb.

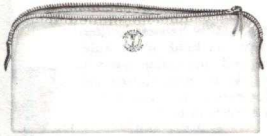
Similar to 5107 except plier does not protrude. Bottom is open to prevent collection of dirt or water. Has slots through which belt may be inserted or it can be riveted on.

Cat. No.	Size	Approx. Wt. Each
5112	3 ½ in. x 9 in.	⅜ lb.

Similar in design and construction to 5112 but has tunnel loop to permit slipping on wider belt.

Cat. No.	Size	Approx. Wt. Each
5112-T	3 ¼ in. x 12 ½ in.	½ lb.

UTILITY BAG



A sturdy white canvas bag with strong zipper. Room for pliers, wrenches, etc.

Cat. No.	Size	Approx. Wt. Each
5139	7″ x 9″	⅛ lb.

SMALL PARTS BAGS

A 12 oz. olive drab fabric bag with four divided compartments to hold small parts. Drawstring provides easy closure.

Cat. No.	Diam.	Depth	Approx. Wt. Each
5147	11″	3″	⅜ lb.

A 12 oz. olive drab fabric bag of large capacity. Has ten separate compartments for holding small parts. Drawstring provides easy closing.

Cat. No.	Diam.	Depth	Approx. Wt. Each
5151	11 in.	6 in.	½ lb.

ALL PURPOSE BAG

All purpose leather bag, light weight. Ideal for carrying loose tools and small parts. Large loops for attaching to body belt.

Cat. No.	Size	Approx. Wt. Each
5146	9″ x 8″ x 3″	⅜ lb.

BUG BAG

A large roomy pouch or "bug" bag. Made of strap leather with gussets of soft, pliable leather. Attaches to belt with latigo leather thongs. Pouch expands to 6½″x6½″ x 3¼″.

Cat. No.	Size	Approx. Wt. Each
5140-K	7″ x 9″	¾ lb.

UTILITY BAG

Made of #8 heavy brown canvas with ¼ in. rope ring in top. Snaps on belt loops for easy attachment. Ventilating eyelet in bottom.

Cat. No.	Size	Top Opening	Approx. Wt. Each
5142	9 in. x 10 in.	8 in. x 3 in.	⅝ lb.
5142-P	Same as 5142 but with inside pocket.		

BOLT BAG

Made of No. 8 canvas. Oval top approximately 5 in. x 9 in. Bag 10 in. deep with double bottom and 3 in. belt loops. Tapered tool loop on each side.

Cat. No.	Approx. Wt. Each
5416	½ lb.
5416-L	¾ lb.

Same as 5416 but made of chrome leather.

HAMMER HOLDERS

Made of high quality harness leather —slotted to slide over 2 in. belt.

Cat. No.	Size	Approx. Wt. Each
5457	4 ¼ x 10 ½ in.	½ lb.

Same style as 5457 but has tunnel loop to permit use on wider belts.

Cat. No.	Size	Approx. Wt. Each
5457-T	4 ¼ x 12 in.	⅝ lb.

Made of strap leather with wire hammer loop riveted to leather panel. Lined with leather. Slotted for attaching to belt.

Cat. No.	Size	Approx. Wt. Each
5456	4 ½ in. x 8 in.	¼ lb.

Same style as 5456 but has tunnel loop to permit use on wider belts.

Cat. No.	Size	Approx. Wt. Each
5456-T	4 ¼ x 9 ½ in.	½ lb.

WRENCH HOLDERS

Leather wrench holder, slotted for sliding on 2 inch belt.

Cat. No.	Size	Approx. Wt. Each
5460	6 x 8 in.	¼ lb.

Same design as 5460 but has tunnel loop to permit use on wider belts.

Cat. No.	Size	Approx. Wt. Each
5459-T	6 x 9 ½ in.	½ lb.

ELECTRODE BAG

Made of No. 4 canvas. Bottom formed from hard leather. Diameter 2½ in. Front 12 in. Back 15½ in. Web loop for sliding over belt.

Cat. No.	Approx. Wt. Each
5471	⅜ lb.

SNAP LOOP

Leather loop with snap hook. Designed for use with wide belt.

Cat. No.	Size	Approx. Wt. Each
5458-T	3 ¼ x 12 ½ in.	¼ lb.

SNAP LOOP

Snap at the end of a leather loop. Slides on a 3 in. belt.

Cat. No.	Approx. Wt. Each
5458	¼ lb.

DRIFT PIN HOLDERS

Made of harness leather slotted for attaching to 2 in. belt.

Cat. No.	Size	Approx. Wt. Each
5417	3 ¼ in. x 11 in.	⅜ lb.

Same as 5417 but has tunnel loop to permit use on wide belt.

Cat. No.	Size	Approx. Wt. Each
5417-T	3 ¼ x 12 ¼ in.	½ lb.

LEATHER TOOL BAG

Made of harness leather to stand hard usage. Has a leather shoulder strap combined with pad and hand strap. The bottom is three ply protected with steel studs. Retaining straps pass clear around the back for security. All seams lock stitched with waxed nylon thread.

Cat. No.	Size	Av. Wt. Each
5108-14	14 x 8 in.	5 lb.
5108-16	16 x 8 in.	5¾ lb.
5108-18	18 x 8 in.	6 lb.
5108-20	20 x 8 in.	6½ lb.
5108-22	22 x 8 in.	7 lb.
5108-24	24 x 8 in.	7¼ lb.

LARGE TOOL BAG

Orange vinyl coated nylon fabric tool bag. Extra large size. Naugahyde reinforced bottom extends 3 inches up the sides. The bottom of the bag is protected with metal studs. Nylon web handles extend around bag for extra support. Wide opening steel frame securely riveted in top of bag. Extra flap for storm protection.

Cat. No.	Size	Depth	Approx. Wt. Each
5180	24x10 in.	18 in.	6½ lb.

CANVAS TOOL BAG

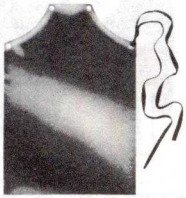
Made of one-piece No. 8 white canvas covered on the bottom and 3 in. up the sides with heavy leather lock stitched and cemented. Bottom is protected with steel studs. Mouth has steel frame. Harness leather handles and two retaining straps and buckles. May be furnished with shoulder strap to order. Width 6 in.

Cat. No.	Length	Depth	Av. Wt. Each
5102-12	12″	10″	2¼ lb.
5102-14	14″	14″	2½ lb.
5102-16	16″	14″	3 lb.
5102-18	18″	14″	3¼ lb.
5102-20	20″	15″	3½ lb.
5102-22	22″	15″	3¾ lb.
5102-24	24″	15″	4 lb.

A strong bag of finest No. 8 white canvas. One piece, covered with leather on the bottom and 8 in. up the sides. Leather is lock stitched and cemented. Bottom protected with steel studs. Mouth of the bag has steel frame. Harness leather handles with two retaining straps and buckles. May be furnished with shoulder strap to order. Width 6 in.

Cat. No.	Length	Av. Wt.	Depth Each
5105-16	16″	3 lb.	14″
5105-18	18″	3½ lb.	14″
5105-20	20″	3¾ lb.	15″
5105-22	22″	4 lb.	15″
5105-24	24″	4½ lb.	15″

INDUSTRIAL APRONS



Made of heavy duty, long wearing Naugahyde. Vinyl surface has the highest resistance to abrasion of any flexible material, will outwear best quality rubber compounds 10 to 1.

ACID RESISTANT—Exposed, coated side is unaffected by most commercially used concentrates of acids, including nitric and chromate. For specific acid or alkaline conditions write for information.

OIL RESISTANT—Naugahyde will not soften nor become tacky when exposed to oils, fats and oil solvents. Even when such exposure is over a long period of time the coating will only gradually stiffen.

FLAME RESISTANT—Naugahyde material is classified as flash fire resistant and is not easily ignited. It will support combustion only if an open flame is directly applied to it. Naugahyde is a thermo plastic and will soften or melt if exposed to temperatures beyond those that can be endured by workmen.

Cat. No.	Width	Length	Approx. Wt. Each
5530-36	24″	36″	1 lb.
5530-42	24″	42″	1⅛ lb.

ELECTRICIANS' WAIST BELTS

A lightweight belt of strap leather with tool loops and chain tape thong. May be used with Klein pouches.

Cat. No.	Size Adjustable	Belt Width	Approx. Wt. Each
5207-M	32″-40″	1½″	⅝ lb.
5207-L	38″-46″	1½″	⅝ lb.
5207-XL	46″-54″	1½″	¾ lb.

A utility waist belt made of 7-8 oz. strap leather 1″ wide by 48″ long. Designed to carry lightweight tool pouches. Adjusts from 33 to 45″.

Cat. No.	Belt Width	Approx. Wt. Each
5201	1″	¼ lb.

A lightweight belt of web belting with strap leather tool loop and chain tape thong. Furnished with friction buckle.

Cat. No.	Size Adjustable	Belt Width	Approx. Wt. Each
5227-M	32″-40″	1½″	⅜ lb.
5227-L	40″-48″	1½″	⅜ lb.
5227-XL	48″-56″	1½″	⅜ lb.

Made of heavy leather. 2 in. wide, equipped with double tongue buckle. **THIS IS NOT A SAFETY BELT.**

Cat. No.	Size Adjustable	Av. Wt. Each
5415	36 to 44 in.	⅝ lb.

Lightweight belt of woven cotton with sliding adjuster. Easily adjusts to any size. Clasp buckle holds belt firmly but permits quick release.

Cat. No.	Belt Width	Approx. Wt. Each
5225	2 in.	½ lb.

GLOVE & SLEEVE BAGS

Made of hard woven belting duck. Has expansion gusset, 5½″ across the top and 2¾″ at bottom. Supplied with two way snap.

Cat. No.	Length	Width	Approx. Wt. Ea.
5121-15	15″	8″	¾ lb.
5121-19	19″	8″	⅞ lb.

Made of hard woven belting duck. Has 2¾″ side gusset. Supplied with two way snap.

Cat. No.	Length	Width	Approx. Wt. Ea.
5123-15	15″	8″	¾ lb.
5123-19	19″	8″	¾ lb.

Designed to hold low voltage gloves. Made of durable No. 8 canvas and equipped with two way snap on the back. 2¾ in. gusset.

Cat. No.	Length	Width	Approx. Wt. Ea.
5124-12	12″	8″	⅝ lb.

Same as 5124 but 15′ deep with expansion gusset, 5½″ at top and 2¾″ at bottom.

Cat. No.	Length	Width	Approx. Wt. Ea.
5124-15	15″	8″	⅝ lb.
5124-17	17″	8″	¾ lb.
5124-19	19″	8″	1 lb.

A combination bag providing separate storage for gloves and sleeves. Panels made of heavy No. 4 canvas and gussets of No. 10 canvas. Width 8 in. Supplied with two way snap.

Cat. No.		Approx. Wt. Each
5122-14	for 14″ gloves	⅞ lb.
5122-16	for 16″ gloves	⅞ lb.
5122-18	for 18″ gloves	⅞ lb.

- **Above glove bags may be had "Vinyl Coated" orange. Add "VC" after catalog number.**
- **Brass grommets in the bottom of bags provide for drainage.**
- **If pockets for glasses are desired add "G" after order number.**

LADDER BAG

Roomy utility bag. Made of olive drab tightly woven flameproof fabric. Snap buttons on flaps fasten around steel frame which hooks on the step of the ladder or messenger strand. Bag is easily unsnapped.

Cat. No.	Size	Approx. Wt. Each
5114		1 ½ lb.
	Complete bag and frame assembly 12″ x 6″ x 8″	
5114-B	Bag only	⅜ lb.
5114-F	Frame only	1 ⅛ lb.

LINEMEN'S POUCH

One piece construction. Made of tan 12 oz. water repellent canvas with ¼″ rope sewed in top. Top 7″ diam. 9″ deep. Rectangular bottom 7½″ x 3½″.

Cat. No.	Approx. Wt. Ea.
5179	⅜ lb.
5179-S	⅜ lb.

Same as 5179 but with snap instead of belt loops.

LINE HOSE BAGS

5110

Designed for raising line hose . . . will hold several pieces in available position. May also be used to raise protective rubber blankets that are rolled. Made of No. 6 canvas. Has cycolac top ring and molded rubber bottom. Leather cuff extends 3″ up the side. ½″ polypropylene rope handle is reinforced with leather where it is spliced around top ring. Standard lengths 36″, 48″, 60″ and 72″. Other lengths available on special order.

Cat. No.	Diam. Top	Diam. Bottom	Length	Approx. Wt. Each
5110-48	7″	7″	48″	2⅞ lb.
5110-60	7″	7″	60″	2¾ lb.
5110-72	7″	7″	72″	3 ½ lb.

INSTALLERS BAG

Made of No. 10 water repellant canvas with all seams double stitched. Two pockets are provided for small parts. Bottom is tapered so parts will stay in center. Equipped with snap.

Cat. No.	Diam.	Depth	Approx. Wt. Ea.
5143	6½″	8″	⅜ lb.

RAINWEAR BAG

Made of waterproof rubberized fabric. Protects rainwear when not in use. Two snap buttons on the flap and belt loops on the back. Brass grommets in bottom to provide drainage.

Cat. No.	Length	Width	Approx. Wt. Ea.
5128	12″	8 ½″	¾ lb.

SLEEVE ROLLS

Sleeve roll made of waterproof canvas. Prevents sharp creasing through insertion of reed alongside. Will accommodate any length sleeve.

Cat. No.	Length	Approx. Wt. Each
5173-31	31″	1 lb.

BLANKET CLAMPS

5117L

5117M

Made of durable cycolac. Clamps have exceptional strength to withstand hard usage. Impervious to low temperature. Will not splinter or absorb water. Heavy spring assures vise-like grip. Edges of jaws rounded to prevent damage to blankets. Made in two sizes.

Cat. No.	Length	Approx. Wt. Each
5117L	12 in.	½ lb.
5117M	8 in.	¼ lb.

CANVAS BUCKETS—NON METALLIC

5104

5106

Most widely used bucket by public utilities and selected as standard by the U.S. Government. Made of No. 1 canvas with cycolac top ring. Bottom is reinforced leather extending 3" up the sides. Inside pocket 8" x 8". Polypropylene rope handle reinforced with leather where it is spliced around top ring.

Cat. No.	Diam. Top	Diam. Bottom	Height	Approx. Wt. Each
5104	12"	12"	17"	3⅛ lb.
5104-S	Same as above but equipped with 2012 malleable swivel snap.			3⅛ lb.

Made of No. 6 canvas. Has cycolac top ring. Bottom is molded rubber. Polypropylene rope handle is reinforced with leather where it is spliced around top ring.

Cat. No.	Diam. Top	Diam. Bottom	Height	Approx. Wt. Each
5106	9"	9"	14"	1⅞ lb.
5106-S	Same as 5106 but equipped with No. 2012 malleable swivel snap.			
5106-P	Same as 5106 but with two 7" x 7" inside pockets.			1⅞ lb.
5106-PS	Same as 5106-P but equipped with No. 2012 malleable swivel snap.			1⅞ lb.

5109

5103-S

A popular priced canvas bucket, made of No. 6 canvas. Has cycolac top ring and molded rubber bottom. Polypropylene rope handle is reinforced with leather where it is spliced around top ring.

Cat. No.	Diam. Top	Diam. Bottom	Height	Approx. Wt. Each
5109	12"	12"	15"	2¼ lb.
5109-P	Same as above but with 8" x 8" inside pocket.			2¼ lb.
5109-S	Same as 5109 but equipped with No. 2012 malleable swivel snap.			2¼ lb.
5109-PS	Same as 5109-P but equipped with No. 2012 swivel snap.			2¼ lb.

Made of No. 1 canvas with cycolac top ring and molded rubber bottom. Polypropylene rope handle spliced around top ring. Equipped with No. 2012 malleable swivel snap.

Cat. No.	Diam. Top	Diam. Bottom	Height	Approx. Wt. Each
5103-S	12"	9"	12"	2⅝ lb.

5113

5144-S

Made of No. 6 canvas with cycolac top ring and molded rubber bottom. Polypropylene rope handle is reinforced with leather where it is spliced around top ring.

Cat. No.	Diam. Top	Diam. Bottom	Height	Approx. Wt. Each
5113	12"	9"	13"	1⅞ lb.
5113-S	Same as above but equipped with No. 2012 malleable swivel snap.			1⅞ lb.

An oval bucket with 15 pockets on the inside. Made of heavy duty No. 6 Canvas. Tripod suspension prevents bucket tipping. Snap is attached for hanging over cross arm hooks or attaching to hand lines.

Cat. No.	Approx. Wt. Each
5144-S	2⅜ lb.

Any bucket may be had "Vinyl Coated" orange color. Add "VC" after the catalog no.

SWIVEL SNAP HOOK

Swivel Snap, cast zinc. Made especially for use on hoisting buckets. NOT TO BE USED ON SAFETY LINES. Any buckets or line hose bags may be equipped with snap by adding letter S after the catalog Number. Maximum safeload 100 lb.

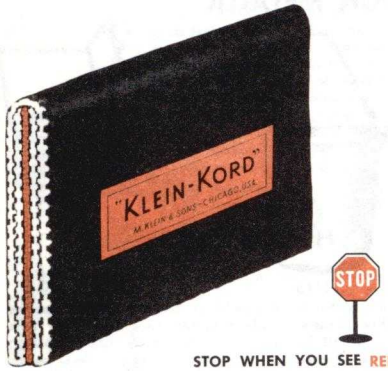
Cat. No.	Length	Approx. Wt. Each
2012	5"	⅜ lb.

CROSSARM HOOK

Made of 5/16 in. steel rod, heavily insulated. Opening 4½ in. Length 10 in.

Cat. No.	Approx. Wt. Each
2101-V	⅛ lb.

"KLEIN-KORD" *NYLON SAFETY STRAPS



STOP WHEN YOU SEE RED

Mathias Klein & Sons, Inc. originated the first fabric safety strap in 1934 and has pioneered every development in the improvement of the fabric safety strap ever since.

Klein introduced the use of nylon in safety straps some years ago and with the many improvements that have been made in this synthetic fiber "Klein-Kord" Safety Straps are recognized by linemen and utilities as possessing all the desirable characteristics required by safety straps. Some of the advantages of "Klein-Kord" Safety Straps are:

*Trade-Mark Registered patent #2152943

WEAR. "Klein-Kord" Nylon Safety Straps will give longer life because of their superior construction. The fabric is firmly woven, providing a smooth, easy-sliding surface. It has the famous red center of nylon originally developed by Klein which indicates when the strap should be removed from service.

CONDUCTIVITY. Because "Klein-Kord" nylon is made of filament nylon it will not conduct electricity. Dielectric strength is well above the standards set by E.E.I. specifications.

STRETCH. In "KLEIN-KORD" nylon safety straps stretch has almost been eliminated, even when the strap is used over long periods of time. Under test these straps show ¼ in. stretch under a load of 250 lbs. No permanent stretch at any load.

PLY ADHESION. "KLEIN-KORD" nylon safety straps are made of multiple plies of strong, finely woven predipped filament nylon frictionized in neoprene and vulcanized.

FLEXIBILITY. Unlike many fabric straps, "KLEIN-KORD" nylon safety straps are extremely flexible assuring maximum comfort in use.

STRENGTH. When tested in use, "KLEIN-KORD" safety straps are capable of a test load far in excess of any working load they will ever be called on to support in service. Lightest in weight, these straps will outwear straps of any other safety strap material on the market.

ABRASION. Abrasion tests are performed on a sample selected at random to assure uniform quality.

"KLEIN-KORD" NYLON EXTENSION STRAP

Used in connection with safety straps where extra length is necessary when working on large diameter poles. Has circle, drop forged, "D" ring.

Cat. No.	Size and Description	Approx. Wt. Each
5236	1¾" x 15" Standard snap	1½ lb.
KL-5236	1¾" x 15" "Klein-Lok" snap	1⅝ lb.

"KLEIN-KORD" NYLON SAFETY STRAP

Meets All Requirements of O.S.H.A. Specifications.

Made of high tenacity continuous filament nylon fabric, thoroughly impregnated with neoprene to provide the desired flexibility with maximum strength. "KLEIN-KORD" nylon safety straps have the highest dielectric characteristics and abrasion resistance of any material available. Equipped with drop-forged and heat treated single tongue buckle and snap on each end.

Standard length 5'8". Can also be furnished from stock in following lengths: 6', 6'6", 7', 8'. Longer lengths to order.

Cat. No.	Size and Description	Approx. Wt. Each
5295	1 ¾" x 5'8" Standard Snaps	3 lb.
KL-5295	1 ¾" x 5'8" "Klein-Lok" snaps	3 lb.
KL-5296	Same as 5295 but fixed end has standard snap and double end has "Klein-Lok" snap.	

"KLEIN-KORD" NYLON FIXED LENGTH SAFETY STRAP

Made of "KLEIN-KORD" as described above but length is fixed. Standard length 4'8". Other lengths can be furnished to order.

Cat. No.	Size and Description	Approx. Wt. Each
5234	1 ¾" x 4'8" Standard snaps	2 ½ lb.
KL-5234	1 ¾" x 4'8" "Klein-Lok" snaps	2 ½ lb.

LEATHER SAFETY STRAP—NYLON CENTER

Designed to conform to OSHA requirements. Double thick latigo leather with woven nylon web center. Equipped with drop-forged and heat treated snap on each end.

Standard length 6'. Can also be furnished from stock in following lengths—6'6" and 7'.

Cat. No.	Size and Description	Approx. Wt. Each
5272-6	1 ¾ in. x 6 ft. Standard Snaps	3 lb.
KL-5272-6	1 ¾ in. x 6 ft. "Klein-Lok" Snaps	3 lb.

FOR QUALITY CONTROL SAFETY RECORDS

Catalog number and date of manufacturer are stamped on metal clip of fixed end of safety strap.

"KLEIN-LOK" SNAPS

"KLEIN-LOK" Snaps are recommended for greater safety. To engage or release snap it is necessary to depress both latches at the same time. This can be done with one hand. Tested to meet or exceed OSHA standards. Snaps are supplied on Klein Safety Straps only and are not sold separately.

ALL KLEIN-BUHRKE BODY BELTS MEET OSHA SPECIFICATIONS

SEMI-FLOATING NYLON-LEATHER TOOL BELT

The strength of nylon and the comfort of leather. Waist strap is 1¾ in. wide made of 6 ply "Klein-Kord" nylon. "D" saddle and pocket tabs are made of neoprene impregnated nylon fabric. Double riveted loops are 1½ in. wide made of leather. Cushion is made of chrome elk tanned leather padded with sponge rubber. No exposed rivets on body side of belt. 30° double bar circle "D" rings and waist strap buckle are drop-forged.

ACCESSORIES

- Glove Bag Ring
- Two-way Knife Snap
- Two Pocket Tabs
- Four Suspension "D" Rings
- No. 5133 Hand Line Carrier
- Tape Thong

Cat. No.	Width	Approx. Wt. Each
5266-N	5 in.	4¾ lb.

FULL FLOATING TOOL BELT

A full floating trace of nylon web 1¾ in. wide is attached to the circle "D" rings allowing approximately four inches of free movement. Waist strap 1¾ in. wide made of 6 ply "Klein-Kord" nylon. A leather apron securely attached to the cushion separates "D" strap from tool loops. Saddle is made of harness leather. Pocket tabs are made of neoprene impregnated nylon fabric. Double riveted tool loops are 1½ in. wide made of leather. Cushion is made of chrome elk tanned leather padded with sponge rubber. No exposed rivets on body side of belt. 30° double bar circle "D" rings and waist strap buckle are drop-forged.

ACCESSORIES

- Glove Bag Ring
- Two-way Knife Snap
- Two Pocket Tabs
- Four Suspension "D" Rings
- Tape Thong

Cat. No.	Width	Approx. Wt. Each
5249-N	5 in.	5⅝ lb.

"D" to "D" Ring Must Be Specified—See Page 60

LIGHTWEIGHT NYLON TOOL BELT

Waist strap is 1¾ in. wide made of 6 ply "Klein-Kord" nylon. "D" saddle and pocket tabs are made of neoprene impregnated nylon fabric. Double riveted tool loops are 1½ in. wide made of leather. Cushion is made of chrome elk tanned leather. No exposed rivets on body side of belt. 90° single bar circle "D" rings and waist strap buckle are drop-forged.

ACCESSORIES

- Glove Bag Ring
- Two-way Knife Snap
- Two Pocket Tabs
- Four Suspension "D" Rings
- Tape Thong

Cat. No.	Width	Approx. Wt. Each
5268-N	4½ in.	4⅛ lb.

FULL FLOATING TOOL BELT

The strength of nylon and the comfort of leather. A full floating trace of nylon web 1¾ in. wide is attached to the circle "D" rings allowing approximately four inches of free movement.
Waist strap is 1¾ in. wide made of 6 ply "Klein-Kord" nylon. "D" saddle and pocket tabs are made of neoprene impregnated nylon fabric. Double riveted tool loops are 1½ in. wide made of leather. Cushion is made of chrome elk tanned leather, padded with sponge rubber. No exposed rivets on body side of belt. 30° double bar circle "D" rings and waist strap buckle are drop-forged.

ACCESSORIES

- Glove Bag Ring
- Two-way Knife Snap
- Two Pocket Tabs
- Four Suspension "D" Rings
- Tape Thong

Cat. No.	Width	Approx. Wt. Each
5282-N	5 in.	6⅜ lb.

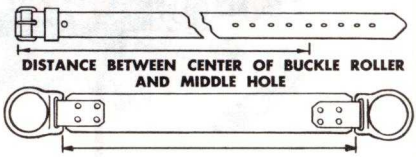
"D" to "D" Ring Must Be Specified—See Page 60

DIRECTIONS TO ASSURE PROPER FIT OF BELTS

The degree of comfort which a lineman obtains from a body belt depends on the location of the "D" rings. In general linemen desire to have the "D" rings located approximately 1 inch ahead of the hip bone. To obtain the correct size belt measure from hip bone to hip bone across the back. The measuring belt shown below will assist the lineman in determining the correct size belt. This permits a positive measurement from 18" to 30" between "D"s. When belt has been fitted the largest number shown would be the "D" to "D" dimensions.

Standard punching of billet is 9 holes on 1 inch centers to provide proper fit in relation to "D" ring measurements. Consideration has been given to variables in circumference of different type belts—exposed rivets versus padded belts, etc. Belts may be made with longer billets at extra charge to increase the maximum length adjustment.

ORDER BY "D" RING SIZE ONLY



BODY BELT CHART

CUSHION BELTS AS 5249-N, 5266-N, 5268-N, 5282-N

"D" to "D"	18	19	20	21	22	23	24	25	26	27	28	29	30
Min. Length	32	34	34	36	38	40	42	44	46	48	50	52	54
Max. Length	40	42	42	44	46	48	50	52	54	56	58	60	62

SIZING BELT

NOT A SAFETY BELT
USE FOR MEASUREMENT ONLY

This belt has been designed to provide a positive measurement from 18" to 30" between "D"s.

Cat. No. 5270 — Approx. Wt. Each 1 7/8 lb.

INSTRUCTIONS FOR USING SIZING BELT

A. Unbuckle and unsnap belt so there are two separate parts.

B. Hold dee rings in desired position on hips and have someone snap buttons to nearest stud.

C. Now *buckle* belt on; if dee rings fit where desired, order the largest size visible to the left of the snaps. Note: Disregard location of buckle — correct size buckle end will be furnished with belt if ordered by dee ring size.

SERIAL DATE TAG

All Klein-Buhrke tool belts are identified with a metal tag indicating:

- **CATALOG NUMBER**
- **SERIAL NUMBER**
- **DATE OF MANUFACTURE**

This information is to aid Safety, Quality Assurance and Inspection Procedure Programs.

BELT ACCESSORIES

HANDLINE SAFETY CLIP

Handline safety clip leather thong with clip. Overall length 10½". A tension of between 8 and 12 lb. releases the handline automatically should it snag, thus assuring maximum safety.

Cat. No.	Av. Wt. Per Doz.
5133	½ lb.

TAPE THONG, KNIFE SNAP, "D" RING

Tape thong 12 in. long.

Cat. No.	Approx. Wt. Each
5130	1½ oz.

Knife Snap with strap and screw type rivets for attaching to belt.

Cat. No.	Approx. Wt. Each
5131	1½ oz.

"D" ring with strap and screw type rivets for attaching to belt.

Cat. No.	Approx. Wt. Each
5132	½ oz.

WRENCH HOLDER

Metal lag-wrench holder riveted to leather pad for attaching with screw type rivets to belt.

Cat. No.	Approx. Wt. Each
5134	⅜ oz.

SEE PAGE 51 FOR OTHER WRENCH HOLDERS

NEAT'S-FOOT OIL

Best grade Neat's-Foot oil in metal can.

Cat. No.	Approx. Wt. Each
N O-1 Pint Can	1⅛ lb.

BELT SUSPENDERS

NOT A SAFETY BELT

Made of lightweight harness leather. Fully adjustable front and back. Each strap is equipped with snap. Rings are also available. See No. 5132.

Cat. No.	Approx. Wt. Each
5213	1⅜ lb.

SEE PAGE 42 FOR OTHER BELT SUSPENDERS

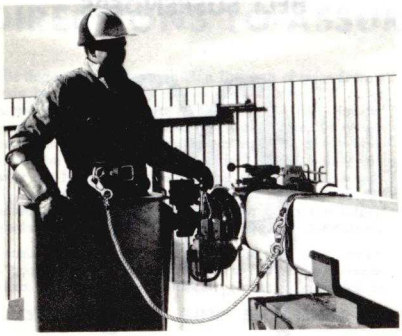
WAIST BELT SUPPORTER

NOT A SAFETY BELT

Tool belt supporter, sometimes referred to as a gut strap. Waist belt is 1¾ in. wide harness leather. Has four ¾ in. wide suspension straps each equipped with a snap and buckle for easy adjustment. Rings are available if desired. See No. 5132.

Cat. No.	Size	Approx. Wt. Each
5208	36" to 46"	1⅝ lb.

5208-N Same as above but made of 6 ply Klein-Kord nylon. Waist belt 1¾ in. wide. Four ¾ in. wide neoprene impregnated nylon adjustable suspension straps with snaps.



AERIAL BASKET TOOL BUCKET

Specially designed for attaching to aerial baskets. Made of heavy duty No. 6 canvas. Inside are 15 pockets for tools. Plastic hooks hold bucket either inside or outside the basket.

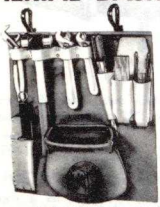
Cat. No.	Length	Width	Depth	Approx. Wt. Each
5144	14″	8″	10″	2⅛ lb.

HOOK FOR TOOL BUCKET

ABS hook designed to hang buckets on the edge of aerial baskets. Also provides a hanging hook for line hose bags, tool buckets, and hand lines. Made of styrene based plastic which withstands climatic temperature changes more readily than PVC plastics.

Cat. No.	Approx. Wt. Each
5144-H	⅛ lb.

AERIAL BASKET TOOL CARRIER



Made of heavy naugahyde, equipped with tool loops, tool holster, knife sheath and small parts bag. Designed to hang inside aerial basket to make tools readily available. Stiffening rod on top holds carrier straight.

Cat. No.	Width	Length	Approx. Wt. Each
5169	19″	21″	3 lb.

AERIAL BASKET LANYARD

Made of ½ in. polypropylene with No. 468-5 snap on each end. Standard length 5 ft. other lengths available.

Cat. No.	Length	Diam.	Approx. Wt. Each
5489-P	5 ft.	½ in.	1 lb.

AERIAL BASKET ASSEMBLIES

The development of aerial basket equipment has brought the need for specially designed safety straps and assemblies for aerial basket work. Here are two assemblies developed by Klein-Buhrke for this purpose. Other assemblies can be made to your specifications.

Cat. No.	Description	Approx. Wt. Set
5220	Assembly consists of boom strap 5217, lanyard 5489-P-½ and waist belt 5444-LB. These are shown below.	4½ lb.
5221	Assembly consists of boom strap 5217, lanyard 5489-P-½ and waist belt 5216. These are shown below.	4⅛ lb.

SEE PAGES 42 TO 44 FOR OTHER HARNESSES

AERIAL BASKET BOOM STRAP

Made of woven nylon web neoprene treated fabric. Flexible, will conform to various shaped booms. Adjustable friction buckle permits snug take up. Drop-forged circle "D" ring is adjustable with pad holding "D" ring in position.

Cat. No.	Length	Width	Approx. Wt. Each
5217	54 in.	1¾ in.	1¼ lb.
5217-2D	Same as 5217 but equipped with two adjustable, drop-forged circle "D" rings for two-man buckets.		

AERIAL BASKET WAIST BELT

Made of neoprene impregnated nylon. Has free running circle "D" ring across the back. Cushion is 4″ wide tapered on the sides. Waist belt is 1¾″ wide, made of 6 ply "Klein-Kord."

Cat. No.	Approx. Wt. Each
5216	2 lb.

LIGHTWEIGHT WAIST BELT

A lightweight flexible belt made of 1¾″ woven nylon webbing. Circle "D" ring has leather liner around the bar which prevents wear of webbing. Equipped with forked tongue buckle and wrap around leather billet.

Cat. No.	Width	Approx. Wt. Each
5444-LB	1¾″	2 lb.

FOR ADDITIONAL SELECTION OF WAIST BELTS, HARNESS AND LANYARDS SEE PAGES 36 THROUGH 44

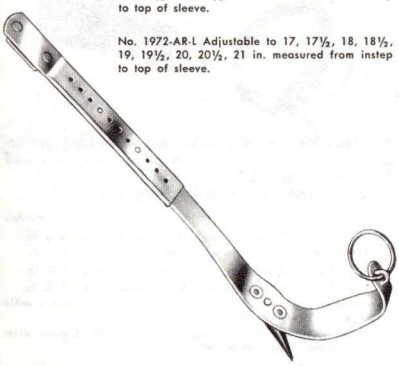
1972-AR REPLACEABLE GAFF ADJUSTABLE CLIMBER

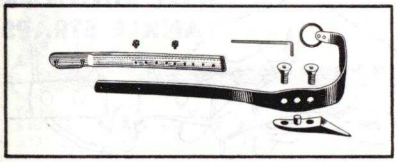
PATENT PENDING

FOR MAXIMUM SAFETY
FOR MAXIMUM COMFORT

No. 1972-AR Adjustable to 15, 15½, 16, 16½, 17, 17½, 18, 18½, 19 in. measured from instep to top of sleeve.

No. 1972-AR-L Adjustable to 17, 17½, 18, 18½, 19, 19½, 20, 20½, 21 in. measured from instep to top of sleeve.





Here is a climber that incorporates all the features we have found most desirable in climber design backed by our experience of over 100 years.

The broad stirrup gives greater support to the foot, reducing fatigue. The contoured leg irons, one for the right leg, one for the left bring the gaff in proper line with the leg bone assuring proper positioning with greater security and comfort. The leg irons are drop-forged from select alloy steel, individually heat treated and tested. The replaceable gaff is drop-forged from electric furnace alloy tool steel. Each gaff is individually heat treated and tested.

A steel sleeve slips over the leg iron and is held in place with two hex head bolts with Shakeproof Lock Washers. Two sizes are available, one adjustable 15 to 19 in. and the other 17 to 21 in.

Gaffs are held securely to the leg iron by a center pin in the gaff and two flat socket head cap screws.

Climbers are equipped with a split ring to hold ankle strap. This makes it possible to replace the ankle strap quickly and easily even in the field.

Cat. No.		Approx. Wt. Pair
1972-AR	Adjustable 15 in. to 19 in.	4½ lb.
1972-AR-L	Adjustable 17 in. to 21 in.	6 lb.

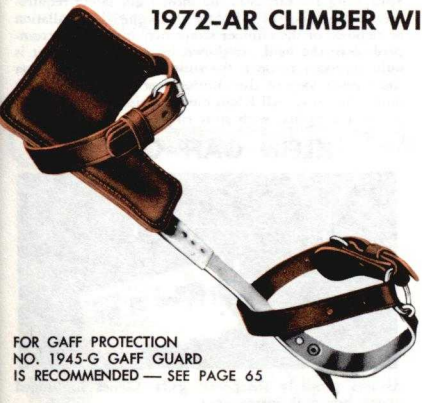
REPLACEABLE GAFFS

Pair of gaffs supplied with flat socket head cap screws and wrench.

Cat. No.		Approx. Wt. Pair
72	Pair of Gaffs	½ lb.

THE 1972-AR CLIMBER REPLACES 1958-AR and 1959-AR CLIMBERS

1972-AR CLIMBER WITH STRAPS AND PADS



FOR GAFF PROTECTION
NO. 1945-G GAFF GUARD
IS RECOMMENDED — SEE PAGE 65

The 1972-AR climber is available with straps and pads. Pads are Klein 8210 made of latigo leather padded with rubberized horse hair. Size 8x8 in. Either nylon or leather calf and ankle straps can be supplied.

Cat. No.		Approx. Wt. Pair
C1972-AR	Adjustable 15 to 19 in. With 8210 Pad, 5301-9 Leather Calf Straps and 5301-26 Leather Ankle Straps.	6 lb.
C1972-AR-L	Adjustable 17 to 21 in. With 8210 Pad, 5301-9 Leather Calf Straps and 5301-26 Leather Ankle Straps.	6½ lb.
CN1972-AR	Adjustable 15 to 19 in. With 8210 Pad, 5301-18 Nylon Calf Straps and 5301-20 Nylon Ankle Straps.	6 lb.
CN1972-AR-L	Adjustable 17 to 21 in. With 8210 Pad, 5301-18 Nylon Calf Straps and 5301-20 Nylon Ankle Straps.	6½ lb.

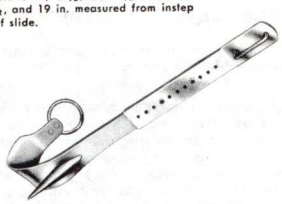
Gaffs for former Adjustable Climbers No. 1958 and 1959 AR.

Cat. No.		Approx. Wt. Pair
59	Pair of Gaffs	½ lb.

IN THE INTERESTS OF SAFETY WE RECOMMEND THAT ONLY THE ORIGINAL GAFF AND TWO REPLACEMENTS BE USED.

"POLE-MASTER" CLIMBERS

Adjustable to 15, 15½, 16, 16½, 17, 17½, 18, 18½, and 19 in. measured from instep to top of slide.



Matched pairs right and left. Wide stirrup gives better support. Offset shank brings gaff in proper line with leg bone assuring greater security and comfort. Riveted top loop, circular split ring at ankle. Gaff $1\frac{13}{16}$" measured on underside. Aluminum finish. Every climber individually tested. Straps and pads shown on following pages.

Cat. No.		Approx. Wt. Pair
1945-A		4½ lb.
*C1945-A	Complete with straps and pads	6 lb.
†CN1945-A	With straps and pads	6 lb.
1945-AL	Adjustable 17" to 21"	4⅝ lb.
*C1945-AL	With straps and pads	6⅛ lb.
†CN1945-AL	With straps and pads	6⅛ lb.

*Furnished with No. 5301-9 leather calf straps, 5301-26 leather ankle straps and 8210 climber pads.

†Furnished with No. 5301-18 nylon calf straps, 5301-20 nylon ankle straps and No. 8210 climber pads.

FIXED GAFF CLIMBERS

Adjustable to 15, 15½, 16, 16½, 17, 17½, 18, 18½, 19 in. measured from instep to top of slide.

Accepted as standard by utilities for many years. Gaff $1\frac{13}{16}$" measured on underside. Riveted strap loops. Aluminum finish. Every climber individually tested. Straps and pads shown on following page.

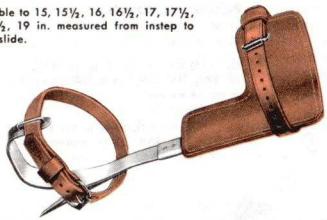
Cat. No.		Approx. Wt. Pair
1901-M-A		4⅝ lb.
*C1901-M-A	Complete with straps and pads	6¼ lb.
†CN1901-M-A	Complete with straps and pads	6¼ lb.
1901-M-AL	Adjustable 17-21 in.	4¾ lb.
*C1901-M-AL	Complete with straps and pads	6⅜ lb.
†CN1901-M-AL	Complete with straps and pads	6⅜ lb.

*Furnished with No. 5301-9 leather calf straps, 5301-10 leather ankle straps and 8210 climber pads.

†Furnished with No. 5301-18 nylon calf straps, 5301-19 nylon ankle straps and No. 8210 climber pads.

TREE CLIMBERS

Adjustable to 15, 15½, 16, 16½, 17, 17½, 18, 18½, 19 in. measured from instep to top of slide.



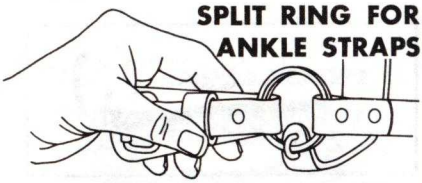
An adjustable pattern climber with extra long gaff designed to offer maximum safety in climbing trees. Gaff 3½" long measured on the underside.
Straps and pads shown on following page.

Cat. No.		Approx. Wt. Pair
*C1907-A	Complete with straps and pads	6⅝ lb.
†CN1907-A	Complete with straps and pads	6⅝ lb.
*C1907-AL	Complete with straps and pads	6¾ lb.
†CN1907-AL	Complete with straps and pads	6¾ lb.

*Furnished with No. 5301-9 leather calf straps, 5301-10 leather ankle straps and 8210 climber pads.

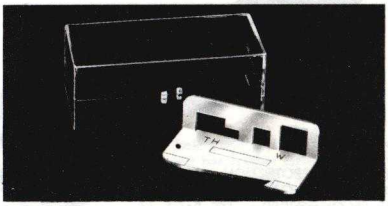
†Furnished with No. 5301-18 nylon calf straps, 5301-19 nylon ankle straps and No. 8210 climber pads.

SPLIT RING FOR ANKLE STRAPS



To simplify the replacing of ankle straps Klein has developed a split ring. The strength of the new Klein Split Ring far surpasses the most rigid safety requirements. Since no special tools are required, installation or removal of the climber straps may be readily accomplished in the field. As shown in the illustration it is only necessary to open the split ring and thread it on the riveted loop of the climber just as you slip a key onto a key ring. All Klein movable ring climber straps are now supplied with split rings.

KLEIN GAFF GAUGE



Assures properly sharpened gaffs. Comes in hinged plastic box with instructions.

Cat. No.	Approx Wt. Each
KG-1	1½ oz.

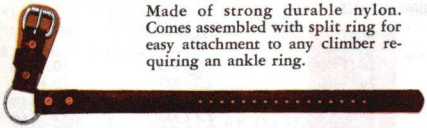
NYLON CLIMBER STRAPS

Cat. No.		Approx. Wt. Pair
5301-21	One pair (calf straps) 1 ¼ in. x 22 in.	⅝ lb.
5301-18	One pair (calf straps) 1 in. x 22 in.	½ lb.
5301-22	One pair (ankle straps) 1 ¼ in. x 26 in.	⅝ lb.
5301-19	One pair (ankle straps) 1 in. x 26 in.	½ lb.

LEATHER CLIMBER STRAPS

Cat. No.		Approx. Wt. Pair
5301-4	One pair (calf straps) 1 ¼ in. x 22 in.	½ lb.
5301-9	One pair (calf straps) 1 in. x 22 in.	⅜ lb.
5301-14	One pair (ankle straps) 1 ¼ in. x 26 in.	½ lb.
5301-10	One pair (ankle straps) 1 in. x 26 in.	½ lb.

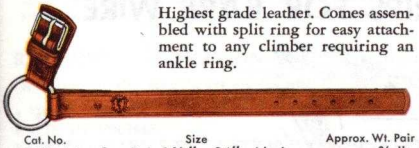
NYLON ANKLE STRAPS



Made of strong durable nylon. Comes assembled with split ring for easy attachment to any climber requiring an ankle ring.

Cat. No.	Size	Approx. Wt. Pair
5301-23	One Pair 1 ¼" x 24" with ring	¾ lb.
5301-20	One Pair 1" x 24" with ring	⅝ lb.

LEATHER ANKLE STRAPS



Highest grade leather. Comes assembled with split ring for easy attachment to any climber requiring an ankle ring.

Cat. No.	Size	Approx. Wt. Pair
5301-16	One Pair 1 ¼" x 24" with ring	¾ lb.
5301-26	One Pair 1" x 24" with ring	⅝ lb.

ANGLE CLIMBER PADS

Right and left pattern of high-grade latigo leather padded with rubberized hair. Size 8 in. x 8 in.

Cat. No.	Approx. Wt. Pair
8210	¾ lb.

CLIMBER GAFF GUARDS

Gaff guard attached to ankle strap. Slips over gaff and when climber is in use is secured to climber out of the way.

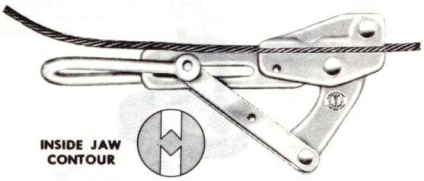
Cat. No.	Approx. Wt. Pair
1968-G	¼ lb.

Made of top grade leather. Riveted construction Stainless steel spring clip.

Cat. No.	Approx. Wt. Pair
1945-G	⅛ lb.

KLEIN "CHICAGO" GRIPS

FOR EXTRA HIGH STRENGTH CABLES, MESSENGER, GUY STRAND AND CONDUCTORS



Double "V" grooves give four point contact reducing chance of slipping and assuring proper alignment. Designed for high strength guy and messenger but can be used on any cable under 4/0. Larger conductors should have round inside contour of jaw.

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1613-40	.37″	.10″	4500 lb.	3 lb.	4″
1613-40B	.37″	.10″	4500 lb.	3 lb.	4″
1628-5	.55″	.16″	8000 lb.	6 lb.	5″
1628-5B	.55″	.16″	8000 lb.	6 lb.	5″
1628-16	.62″	.31″	15,000 lb.	15½ lb.	7¼″
1628-16B	.62″	.31″	15,000 lb.	15½ lb.	7¼″
1628-17	.75″	.50″	15,000 lb.	17 lb.	7¼″
1628-17B	.75″	.50″	15,000 lb.	17 lb.	7¼″
*1628-18	1.00″	.75″	15,000 lb.	17 lb.	7¼″
*1628-18B	1.00″	.75″	15,000 lb.	17 lb.	7¼″

B indicates bronze-lined jaws. ***Made to special order only. Not returnable.**

METRIC DIMENSIONS

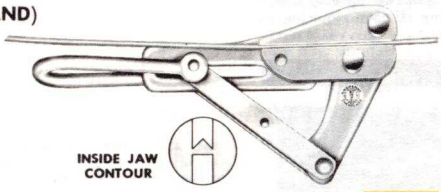
Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1613-40	9.398 mm	2.540 mm	2041 KG	1.36 KG	10.16 cm
1613-40B	9.398 mm	2.540 mm	2041 KG	1.36 KG	10.16 cm
1628-5	13.970 mm	4.064 mm	3629 KG	2.72 KG	12.70 cm
1628-5B	13.970 mm	4.064 mm	3629 KG	2.72 KG	12.70 cm
1628-16	15.748 mm	7.874 mm	6804 KG	7.03 KG	18.42 cm
1628-16B	15.748 mm	7.874 mm	6804 KG	7.03 KG	18.42 cm
1628-17	19.050 mm	12.700 mm	6804 KG	7.71 KG	18.42 cm
1628-17B	19.050 mm	12.700 mm	6804 KG	7.71 KG	18.42 cm
*1628-18	25.400 mm	19.050 mm	6804 KG	7.71 KG	18.42 cm
*1628-18B	25.400 mm	19.050 mm	6804 KG	7.71 KG	18.42 cm

B indicates bronze-lined jaws. ***Made to special order only. Not returnable.**

KLEIN "CHICAGO" GRIPS FOR BARE WIRE

(SOLID AND STRAND)

Single "V" Groove Jaw



Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1613-30	6 B & S Solid (.20″)	12 B & S Solid (.08″)	1500 lb.	1½ lb.	3″
1613-30B	6 B & S Solid (.20″)	12 B & S Solid (.08″)	1500 lb.	1½ lb.	3″

B indicates bronze-lined jaws.

METRIC DIMENSIONS

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1613-30	6 B & S Solid (5.080 mm)	12 B & S Solid (2.032 mm)	680.4 KG	.68 KG	7.62 cm
1613-30B	6 B & S Solid (5.080 mm)	12 B & S Solid (2.032 mm)	680.4 KG	.68 KG	7.62 cm

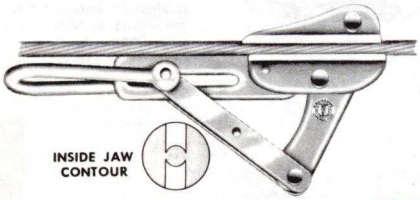
B indicates bronze-lined jaws.

KLEIN "CHICAGO" GRIPS

FOR LARGE DIAMETER CONDUCTORS

For hollow conductors and other large diameter cables the jaws of the grip must be shaped to provide maximum contact with the circumference of the cable to prevent conductor damage. We hold grips in blank and finish as necessary. Allow 30 to 45 days for delivery. Grips made to special order are not returnable.

ORDERS MUST SPECIFY EXACT OUTSIDE DIAMETER OF CABLE • MADE FOR ONE SIZE CABLE ONLY



Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Weight Each	Jaw Length
1656-AB	500,000 CM A.C.S.R. (.90")	3/0 A.C.S.R. (.50")	8000 lb.	7½ lb.	5½"
1628-16BP	477,000 CM A.C.S.R. (.88")	2 A.C.S.R. (.31")	15,000 lb.	17 lb.	7¼"
1628-30	1,033,500 CM A.C.S.R. (1.24")	477,000 CM A.C.S.R. (.83")	20,000 lb.	25 lb.	10¾"
1628-30B	1,033,500 CM A.C.S.R. (1.24")	477,000 CM A.C.S.R. (.83")	20,000 lb.	25 lb.	10¾"
1628-40	1,590,000 CM A.C.S.R. (1.54")	1,033,000 CM A.C.S.R. (1.24")	25,000 lb.	29 lb.	10¾"
1628-40B	1,590,000 CM A.C.S.R. (1.54")	1,033,000 CM A.C.S.R. (1.24")	25,000 lb.	29 lb.	10¾"
*1628-50	2,500,000 CM Alu. (1.82")	666,600 CM A.C.S.R. (1.00")	25,000 lb.	29 lb.	10¾"
*1628-50B	1,780,000 CM A.C.S.R. (1.60")	666,600 CM A.C.S.R. (1.00")	25,000 lb.	29 lb.	10¾"

B indicates bronze-lined jaws.

METRIC DIMENSIONS

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1656-AB	500,000 CM A.C.S.R. (22.860 mm)	3/0 A.C.S.R. (12.700 mm)	3629 KG	3.40 KG	13.970 cm
1628-16BP	477,000 CM A.C.S.R. (22.352 mm)	2 A.C.S.R. (7.874 mm)	6804 KG	7.71 KG	18.420 cm
1628-30	1,033,500 CM A.C.S.R. (31.496 mm)	477,000 CM A.C.S.R. (21.082 mm)	9072 KG	11.34 KG	27.305 cm
1628-30B	1,033,500 CM A.C.S.R. (31.496 mm)	477,000 CM A.C.S.R. (21.082 mm)	9072 KG	11.34 KG	27.305 cm
1628-40	1,590,000 CM A.C.S.R. (39.116 mm)	1,033,000 CM A.C.S.R. (31.496 mm)	11340 KG	13.15 KG	27.305 cm
1628-40B	1,590,000 CM A.C.S.R. (39.116 mm)	1,033,000 CM A.C.S.R. (31.496 mm)	11340 KG	13.15 KG	27.305 cm
*1628-50	2,500,000 CM Alu. (46.228 mm)	666,600 CM A.C.S.R. (25.400 mm)	11340 KG	13.15 KG	27.305 cm
*1628-50B	1,780,000 CM A.C.S.R. (40.640 mm)	666,600 CM A.C.S.R. (25.400 mm)	11340 KG	13.15 KG	27.305 cm

B indicates bronze-lined jaws.

*Furnished with removable floating jaw, which allows maximum coverage of cables and eliminates conductor damage, particularly under heavy loads. The removable jaw is held in place by a bolt swaged into the lever arm of grip secured by a nut and cotter pin. It is necessary to remove the jaw of the grip to insert the cable.

REQUIRED INFORMATION WHEN ORDERING ABOVE GRIPS

Give one of the specifications below:

- "BIRD CODE"
- O.D. IN INCHES
- CIRCULAR MILLS WITH STRAND COMBINATION

CAUTION

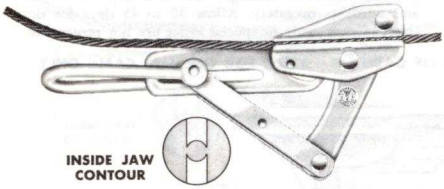
On all grips proper maintenance and field inspection are important to prevent accumulation of foreign material in the jaws which might cause slippage.

TO CHOOSE THE CORRECT SIZE OF GRIP

- Consult reference tables on pages 76 and 77 for diameters of wire in general use. There is also a table of decimal equivalents of fractions.
- If you wish our recommendations for proper grip send outside diameters and full description of cable.
- Klein "Chicago" Grips with letter "B" after number have bronze lined jaws to avoid possible damage to conductor.
- All grips furnished with cadmium plate with dichromate gold overlay.
- "Chicago" Grips are furnished with self-locking loop handles which allow the grip jaws to be locked in open position. To lock, open jaws and fold loop handle toward the side plates. (This feature not standard of grips for hot line work. May be furnished on special order.)

KLEIN "CHICAGO" GRIPS

FOR BARE A.C.S.R., ALUMINUM AND STRANDED COPPER CABLES



The round, smooth jaw contour on this series of grips is ideal for bare A.C.S.R., aluminum and stranded copper cables as well as for larger sized cables 4/0 and larger. The smooth jaws grip the cable with maximum contact and are less likely to damage conductors.

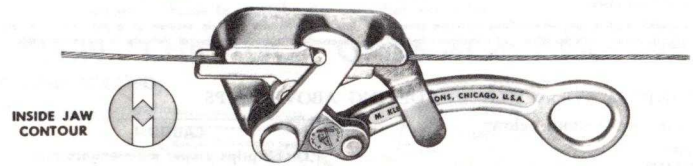
Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1656-20	1/0 A.C.S.R. (.40")	6 A.C.S.R. (.20")	4500 lb.	3 lb.	4"
1656-20B	1/0 A.C.S.R. (.40")	6 A.C.S.R. (.20")	4500 lb.	3 lb.	4"
1656-30	3/0 A.C.S.R. (.53")	4 A.C.S.R. (.25")	4500 lb.	3 ¾ lb.	4 ¾"
1656-30B	3/0 A.C.S.R. (.53")	4 A.C.S.R. (.25")	4500 lb.	3 ¾ lb.	4 ¾"
1656-40	336,400 CM A.C.S.R. (.74")	3/0 A.C.S.R. (.53")	8000 lb.	7 ½ lb.	5 ½"
1656-40B	336,400 CM A.C.S.R. (.74")	3/0 A.C.S.R. (.53")	8000 lb.	7 ½ lb.	5 ½"
1656-50	477,000 CM A.C.S.R. (.88")	397,500 CM A.C.S.R. (.78")	8000 lb.	7 ½ lb.	5 ½"
1656-50B	477,000 CM A.C.S.R. (.88")	397,500 CM A.C.S.R. (.78")	8000 lb.	7 ½ lb.	5 ½"

METRIC DIMENSIONS

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1656-20	1/0 A.C.S.R. (10.160 mm)	6 A.C.S.R. (.20") (5.080 mm)	2041 KG	1.36 KG	10.160 cm
1656-20B	1/0 A.C.S.R. (10.160 mm)	6 A.C.S.R. (.20") (5.080 mm)	2041 KG	1.36 KG	10.160 cm
1656-30	3/0 A.C.S.R. (13.460 mm)	4 A.C.S.R. (.25") (6.350 mm)	2041 KG	1.70 KG	12.065 cm
1656-30B	3/0 A.C.S.R. (13.460 mm)	4 A.C.S.R. (.25") (6.350 mm)	2041 KG	1.70 KG	12.065 cm
1656-40	336,400 CM A.C.S.R. (18.796 mm)	3/0 A.C.S.R. (.53") (13.462 mm)	3629 KG	3.40 KG	13.970 cm
1656-40B	336,400 CM A.C.S.R. (18.796 mm)	3/0 A.C.S.R. (.53") (13.462 mm)	3629 KG	3.40 KG	13.970 cm
1656-50	477,000 CM A.C.S.R. (22.352 mm)	397,500 CM A.C.S.R. (19.812 mm)	3629 KG	3.40 KG	13.970 cm
1656-50B	477,000 CM A.C.S.R. (22.352 mm)	397,500 CM A.C.S.R. (19.812 mm)	3629 KG	3.40 KG	13.970 cm

B indicates bronze-lined jaws.

KLEIN PARALLEL JAW GRIP



Klein Parallel Jaw Grip has longer jaws which assure a firm hold. Danger of slipping is reduced which might result in damage to cable. Safety latch prevents grip from falling off cable. The large eye will accommodate heavy hook on tackle blocks.

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Each	Jaw Length
1671-10	.75	.375	10,000 lbs.	5 lbs.	4 ⅜ in.
1671-10B	.75	.375	10,000 lbs.	5 ⅛ lbs.	4 ⅜ in.
1671-10BH	.75	.375	10,000 lbs.	5 ¼ lbs.	4 ⅜ in.

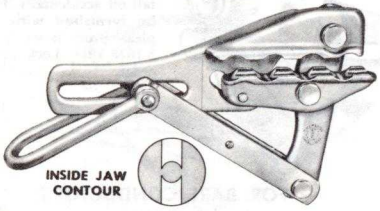
METRIC DIMENSIONS

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1671-10	19.050 mm	9.525 mm	4536 KG	2.27 KG	11.112 cm
1671-10B	19.050 mm	9.525 mm	4536 KG	2.32 KG	11.112 cm
1671-10BH	19.050 mm	9.525 mm	4536 KG	2.38 KG	11.112 cm

B indicates bronze-lined jaws.
BH indicates bronze-lined jaws and latch for hot line work.

KLEIN "CHICAGO" GRIPS

FOR PVC COVERED CONDUCTORS



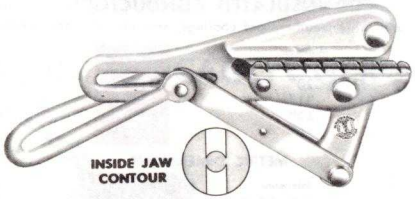
Specially machined jaws allow snaking insulated conductors through jaws reducing danger of slippage which might result in conductor damage. No necessity to strip insulation from conductor.

Cat. No.	Maximum Conductor	Minimum Conductor	Maximum Safe Load	Approx. Weight Each	Jaw Length
1659-20	.42″	.20″	4,500 lb.	3 lb.	4″
1659-30	.50″	.31″	4,500 lb.	3¾ lb.	4¾″
1659-40	.79″	.49″	8,000 lb.	7¾ lb.	5½″
1659-50	1.01″	.79″	8,000 lb.	7¾ lb.	5½″

METRIC DIMENSIONS

Cat. No.	Maximum Conductor	Minimum Conductor	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1659-20	10.668 mm	5.080 mm	2041 KG	1.36 KG	10.160 cm
1659-30	12.700 mm	7.874 mm	2041 KG	1.70 KG	12.065 cm
1659-40	20.066 mm	12.446 mm	3629 KG	3.52 KG	13.970 cm
1659-50	25.654 mm	20.066 mm	3629 KG	3.52 KG	13.970 cm

KLEIN "CHICAGO" GRIPS FOR WEATHERPROOF WIRE



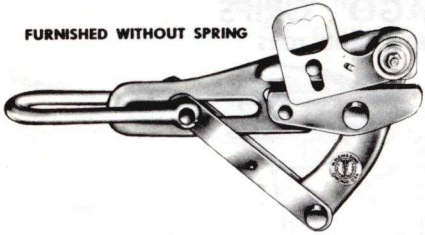
Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1611-20	.40″	.20″	4500 lb.	3 lb.	4″
1611-30	.53″	.25″	4500 lb.	3¾ lb.	4¾″
1611-40	.74″	.53″	8000 lb.	7¾ lb.	5½″
1611-50	.88″	.78″	8000 lb.	7¾ lb.	5½″

METRIC DIMENSIONS

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1611-20	10.160 mm	5.080 mm	2041 KG	1.36 KG	10.160 cm
1611-30	13.462 mm	6.350 mm	2041 KG	1.70 KG	12.065 cm
1611-40	18.796 mm	13.462 mm	3629 KG	3.52 KG	13.970 cm
1611-50	22.352 mm	19.812 mm	3629 KG	3.52 KG	13.970 cm

NOTE: Due to various types of weatherproof coatings available, selection of proper grips is determined by outside diameter of cable.

KLEIN IMPROVED HOT LINE "CHICAGO" GRIPS



May be placed on wire with hot line stick. When stick is removed, safety latch closes automatically—cannot fall off accidentally. **For hot or dead work grips can be furnished with springs.** If springs are desired, please prefix letter "S" before catalog number. Example S 1628-5BH. Lock open feature furnished on special order.

FOR BARE CONDUCTORS

Cat. No.	Maximum Conductor	Minimum Conductor	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1613-40BH	1/0 B & S Strand (.37")	8 B & S Solid (.10")	4500 lb.	3¼ lb.	4"
1628-5BH	4/0 B & S Strand (.55")	6 Solid (.16")	8000 lb.	6¼ lb.	5"
1656-20BH	1/0 A.C.S.R. (.40")	6 A.C.S.R. (.20")	4500 lb.	3¼ lb.	4"
1656-30BH	3/0 A.C.S.R. (.53")	4 A.C.S.R. (.25")	4500 lb.	4 lb.	4¾"
1656-40BH	336,000 CM A.C.S.R. (.74")	3/0 A.C.S.R. (.53")	8000 lb.	7¾ lb.	5½"
1656-50BH	477,000 CM A.C.S.R. (.88")	397,500 CM A.C.S.R. (.78")	8000 lb.	7¾ lb.	5½"
*1656-ABH	500,000 CM A.C.S.R. (.90")	3/0 A.C.S.R. (.50")	8000 lb.	7¾ lb.	5½"

*For use on aluminum cables where minimum conductor damage is essential, we hold stock of parts, and jaws are milled to fit exact diameter of cable. Range of conductor size is given for general information and is made for one size cable only. ORDERS MUST SPECIFY EXACT OUTSIDE DIAMETER OF CABLE.

METRIC DIMENSIONS

Cat. No.	Maximum Conductor		Minimum Conductor		Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1613-40BH	1/0 B & S Strand	(9.398 mm)	8 B & S Solid	(2.540 mm)	2041 KG	1.474 KG	10.16 cm
1628-5BH	4/0 B & S Strand	(13.970 mm)	6 Solid	(4.064 mm)	3629 KG	2.835 KG	12.70 cm
1656-20BH	1/0 A.C.S.R.	(10.160 mm)	6 A.C.S.R.	(5.080 mm)	2041 KG	1.474 KG	10.16 cm
1656-30BH	3/0 A.C.S.R.	(13.462 mm)	4 A.C.S.R.	(6.350 mm)	2041 KG	1.814 KG	12.065 cm
1656-40BH	336,000 CM A.C.S.R.	(18.796 mm)	3/0 A.C.S.R.	(13.462 mm)	3629 KG	3.515 KG	13.970 cm
1656-50BH	477,000 CM A.C.S.R.	(22.352 mm)	397,500 CM	(19.812 mm)	3629 KG	3.515 KG	13.970 cm
*1656-ABH	500,000 CM A.C.S.R.	(22.860 mm)	3/0 A.C.S.R.	(12.700 mm)	3629 KG	3.515 KG	13.970 cm

FOR INSULATED CONDUCTORS

Note: Due to various types of PVC and other weatherproof coatings, selection of proper grips is determined by O. D. of cable.

Cat. No.	Maximum Conductor	Minimum Conductor	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1659-20H	.42"	.20"	4500 lb.	3¼ lb.	4"
1659-30H	.50"	.31"	4500 lb.	4 lb.	4¾"
1659-40H	.79"	.49"	8000 lb.	7¾ lb.	5½"
1659-50H	1.01"	.79"	8000 lb.	7¾ lb.	5½"

METRIC DIMENSIONS

Cat. No.	Maximum Conductor	Minimum Conductor	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1659-20H	10.668 mm	5.080 mm	2041 KG	1.5 KG	10.16 cm
1659-30H	12.700 mm	7.874 mm	2041 KG	1.8 KG	10.16 cm
1659-40H	20.066 mm	12.446 mm	3629 KG	3.52 KG	13.97 cm
1659-50H	25.654 mm	20.066 mm	3629 KG	3.52 KG	13.97 cm

CURVED JAW GRIPS FOR EHS CABLE

When pulling EHS galvanized steel cable the galvanizing has a tendency to "coat" the jaws of the grip causing the cable to slip. In this grip the jaws are milled on a curve which provides better gripping and lessens the danger of damage to the cable. Available as a regular grip, with hot line latch, and with spring.

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1628-73	.50"	.25"	8000 lb.	6 lb.	5"
1628-73H	.50"	.25"	8000 lb.	6 lb.	5"
S1628-73H	.50"	.25"	8000 lb.	6 lb.	5"

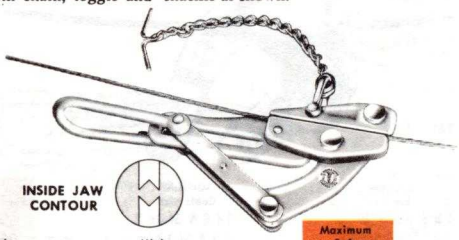
METRIC DIMENSIONS

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1628-73	12.70 mm	6.35 m	3629 KG	2.72 KG	12.70 cm
1628-73H	12.70 mm	6.35 m	3629 KG	2.72 KG	12.70 cm
S1628-73H	12.70 mm	6.35 m	3629 KG	2.72 KG	12.70 cm

Available as regular grip—with hot line latch (H) —and with spring (S)

KLEIN "CHICAGO" GRIPS Bell System Type

1628-5 AT is identical to Bell System type "L" strand puller and 1628-16 AT identical to Bell System type "H" strand puller. Fitted with chain, toggle and shackle as shown.



Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Weight Each	Jaw Length
1628-5AT	.55"	.16"	8,000 lb.	6 lb.	5"
1628-16AT	.62"	.31"	15,000 lb.	15½ lb.	7¼"

METRIC DIMENSIONS

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1628-5AT	13.970 mm	4.064 mm	3629 KG	2.70 KG	12.70 cm
1628-16AT	15.748 mm	7.874 mm	6804 KG	7.03 KG	18.42 cm

KLEIN "CHICAGO" GRIPS For Figure 8 Telephone Cables

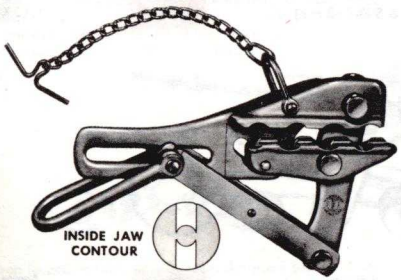
Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1613-80	.109 support wire maximum .17"	.14"	1,500 lb.	1½ lb.	3"

For support wire .134 and larger, refer to 1659 series. Outside diameter of support wire includes thickness of Polyethylene coating. Grips are applied to supporting member of cable.

METRIC DIMENSIONS

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1613-80	2.769 mm .109 support wire maximum 4.318 mm	3.556 mm	680.4 KG	.68 KG	7.62 cm

KLEIN "CHICAGO" GRIPS



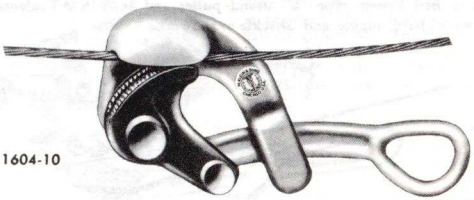
This grip is similar to Bell System Type B Strand Puller. Designed to pull ¼ in. figure 8 telephone cable. Serpentine grooves mesh on insulation and strand, preventing slippage. Fitted with chain, toggle and shackle to prevent grip from falling in case of disengagement with conductor.

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1659-5AT	.37"	.20"	5,000 lbs.	6 lbs.	5"

METRIC DIMENSIONS

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1659-5AT	9.398 mm	5.080 mm	2268 KG	2.72 KG	12.70 cm

KLEIN "HAVEN" GRIPS



1604-10

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Weight
1604-10	4 B & S(.25")	14 B & S(.06")	2,500 lb.	1 lb.
1604-20	.50" Steel Strand	7 B & S(.12")	5,000 lb.	2½ lb.

METRIC DIMENSIONS

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Weight
1604-10	4 B & S (6.350 mm)	14 B & S (1.524 mm)	1134 KG	.45 KG
1604-20	12.700 mm Steel Strand	7 B & S (3.048 mm)	2268 KG	1.13 KG

Same as above but with swing latch

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Weight
1604-20L	.50" Steel Strand	7 B & S(.12")	5,000 lb.	2½ lb.

METRIC DIMENSIONS

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Weight
1604-20L	12.700 mm	7 B & S (3.048 mm)	2268 KG	1.13 KG

1625-20

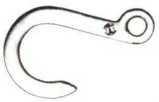
Can be furnished for ⅞" or 1" cable to order

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Weight
1625-20	.75" Wire Rope	2 B & S(.28")	8,000 lb.	3½ lb.

METRIC DIMENSIONS

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Weight
1625-20	19.05 mm Wire Rope	2 B & S (7.112 mm)	3629 KG	1.59 KG

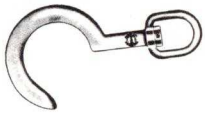
ANCHOR HOOK FOR TACKLES



A drop forged steel hook approximately 5½" long by 3¼" across the throat. Eye has an inside diameter of ⅝" to engage with snap on Klein Tackle No. 1802-30 and H-1802-30. Galvanized finish. Designed to slip under insulator and engage pin of cross arm.

Cat. No.	Max. Safe Load	Approx. Wt. Each
258	1,500 lbs.	¼ lb.

SWIVEL ANCHOR HOOK



Drop forged steel. Approximately 6½" long and 3¼" across the throat. Swivel clevis will engage with snap on Klein Tackles No. 1802-30 and H-1802-30. Swivel prevents twisting and kinking of rope. Inside dimension eye 1".

Cat. No.	Max. Safe Load	Approx. Wt. Each
259	1,500 lbs.	⅜ lb.

SAFETY SNAP HOOK

Made of drop-forged steel. Designed to snap over ladder rungs or re-bar reinforcements which are used in construction. Maximum throat opening 1½". Inside diameter of eye 1". Overall length 6¼".

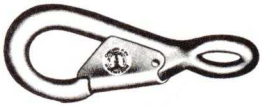
Cat. No.	Max. Safe Load	Approx. Wt. Each
457-5	5,000 lbs.	½ lb.

SPREADER HOOK

Drop forged, welded construction designed for use with tree trimmer harness. Comfort is increased because the rings are separated approximately 8" relieving leg pressure and allowing greater freedom of leg movement while harness is worn. Inside diam. center eye 1⅛". Throat opening in snaps $^{11}/_{16}$ in.

Cat. No.	Approx.Wt. Each
456	1 lb.

HAND LINE SNAP HOOKS

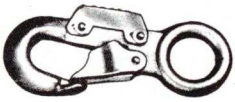


Drop forged steel. Length overall 5½". Eye is 1" I.D. Snap opens to ¾".

Cat. No.	Max. Safe Load	Approx. Wt. Each
443-A	1,500 lbs.	½ lb.

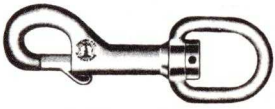
Rope snap hook made of drop forged steel. Maximum throat opening $^{11}/_{16}$". Inside diameter of eye 1⅛". Overall 5¼".

Cat. No.	Max. Safe Load	Approx. Wt. Each
468-5	5,000 lbs.	½ lb.



Rope snap hook made of drop-forged steel. Maximum throat opening 11/16". Inside diameter of eye 1⅛". Overall length 5¼". Equipped with positive safety lock.

Cat. No.	Max. Safe Load	Approx. Wt. Each
468-L	5,000 lbs.	½ lb.



Drop forged steel with swivel clevis and quick acting plunger style latch. Designed to take ½" or lighter hand lines. Swivel action prevents accidental fouling into secondary wires. Inside dimension swivel eye 1".

Cat. No.	Max. Safe Load	Approx. Wt. Each
470	750 lbs.	¼ lb.

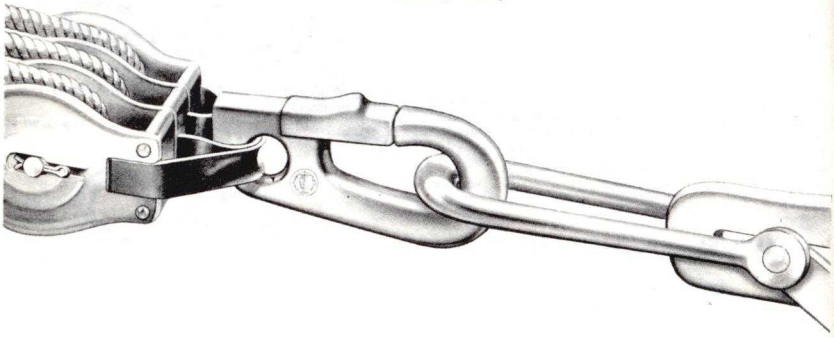
SWIVEL SNAP HOOK

Swivel Snap, cast zinc. Made especially for use on hoisting buckets. NOT TO BE USED ON SAFETY LINES. Any buckets or line hose bags may be equipped with snap by adding letter S after the catalog Number. Maximum safeload 100 lb.

Cat. No.	Length	Approx. Wt. Each
2012	2"	⅜ lb.

KLEIN UTILITY SNAP HOOK

Heavy Duty



No. 455

No. 455-S

Designed to prevent hook from disengaging even on a slacked line. Easy to apply and is able to pull up a transformer or other heavy load. No taping or wiring of throat is necessary. Quickly pays for itself in time and material saved. Attaches securely for maximum safety thus guarding groundman.

Made of forged steel designed to carry a working load of 8,000 lb. with adequate safety factor. Snaps on with one hand and may be used on any conventional steel block 4 inches or smaller by simply replacing conventional hook with Klein Snap Hook.

No. 455 furnished with eye 15/16-inch I.D. Can be supplied with eye 1-1/4-inch I.D. for larger block.

Cat. No.	Description	Length	Wt. Each
455	Solid eye	4 ½ in.	1 lb.
455-S	Swivel eye ¾ in. long	7 ½ in.	1 ¼ lb.

Maximum safe load on above snap hooks. . 8000 lbs.

WILL PREVENT HOOK FROM FALLING OFF

NO TAPE NECESSARY

SELF LOCKING BLOCK TACKLE

Light steel shell blocks galvanized, fitted with snubbing hook to lock load in any position. Sheaves are aluminum alloy and are bronze bushed. May be had with drop forged hook #258 or swivel hook #259. These hooks are designed to fit under insulator and engage pin on cross arm. Rope is of highest quality four-strand Manila. Rope not spliced to block. Safe load 1200 lb.

Cat. No.	Description	Approx. Wt. Each
1802-30	Furnished with 25 ft. ⅜ in. rope and detachable hook No. 258	2½ lb.
1802-30SR	Same as 1802-30 but with rope attached to block.	
1802-30S	Furnished with 25 ft. ⅜ in. rope and detachable swivel anchor hook No. 259	2½ lb.
1802-30SSR	Same as 1802-30S but with rope attached to block.	

SELF LOCKING BLOCK TACKLE
(WITH GUARDED SNAPS)

Identical with the block tackle described above except that the snaps are "guarded." The nose of each hook is lengthened to extend over the latch or keeper. Safe load 1,200 lb. Rope not spliced to block.

Cat. No.	Description	Approx. Wt. Each
H1802-30	Furnished with 25 ft. ⅜ in. rope and detachable hook No. 258	3½ lb.
H1802-30SR	Same as H1802-30 but with rope attached to block.	
H1802-30S	Furnished with 25 ft. ⅜ in. rope and detachable swivel anchor hook No. 259	3½ lb.
H1802-30SSR	Same as H1802-30S but with rope attached to block.	

SELF LOCKING BLOCKS
Without Rope and Hooks

Cat. No.	Description	Approx. Wt. Each
267	Plain block of light galvanized steel and aluminum alloy. Sheaves have bronze bushing.	1 lb.
268	Same construction as 267 but with eye to splice line to block.	1 lb.
H267	Same construction as 267 but nose of hook extends over latch or keeper.	1 lb.
H268	Same construction as 268 but nose of hook extends over latch or keeper.	1 lb.

HOWE WIRE TOOL

Strap made of Klein-Kord nylon. Swivel hook of forged steel with large opening. Shank of hook lengthened to reach under insulator. Other end has locking device to hold the load at any distance. All metal parts are galvanized finish Maximum Safe Load 500 lb.

Cat. No.	Size	Weight Each
1702-20N	Klein-Kord Nylon Strap 1" wide, 7' long	2 lb.
241N	Extra Klein-Kord Nylon Strap for Above	

"CHICAGO" LINEMANS TOOL

This combines the wire tool shown above #1702-20N with a "Chicago" Grip #1613-30.

Other sizes of grips in this combination can be furnished on special order. Maximum Safe Load 500 lb.

Cat. No.	Size	Weight Each
1700-30N	For 6 wire and smaller down to 12 B&S. with Klein-Kord Nylon Strap	3½ lb.
241N	Extra Klein-Kord Nylon Strap for Above	

Comparative Sizes of Different Wire Gauges in Decimals of an Inch

No. of Wire Gauge	*American or Brown & Sharpe (B. & S.)	Birmingham or Eng. Wire (B. W. G.)	New British Standard (N. B. S.)
0000	.460	.454	.400
000	.40964	.425	.372
00	.3648	.380	.348
0	.32486	.340	.324
1	.2893	.300	.300
2	.25763	.284	.276
3	.22942	.259	.252
4	.20431	.238	.232
5	.18194	.220	.212
6	.16202	.203	.192
7	.14428	.180	.176
8	.12849	.165	.160
9	.11443	.148	.144
10	.10189	.134	.128
11	.090742	.120	.116
12	.080808	.109	.104
13	.071961	.095	.092
14	.064084	.083	.080
15	.057068	.072	.072
16	.05082	.065	.064
17	.045257	.058	.056
18	.040303	.049	.048
19	.03589	.042	.040
20	.031961	.035	.036
21	.028462	.032	.032
22	.025347	.028	.028
23	.022571	.025	.024
24	.0201	.022	.022
25	.0179	.020	.020
26	.01594	.018	.018
27	.014195	.016	.0164
28	.012641	.014	.0148
29	.011257	.013	.0136
30	.010025	.012	.0124
31	.008928	.010	.0116
32	.00795	.009	.0108
33	.00708	.008	.010
34	.006304	.007	.0092
35	.005614	.005	.0084
36	.005	.004	.0076
37	.004453	.....	.....
38	.003965	.....	.....
39	.003531	.....	.....
40	.003144	.....	.....

*The American (B. & S.) gauge is generally used for solid wires of aluminum or copper. The B. W. G. is generally used for steel and iron wire.

Decimal Equivalents of Fractions of an Inch

8ths	
1/8	.125
1/4	.250
3/8	.375
1/2	.500
5/8	.625
3/4	.750
7/8	.875
16ths	
1/16	.0625
3/16	.1875
5/16	.3125
7/16	.4375
9/16	.5625
11/16	.6875
13/16	.8125
15/16	.9375
32ds	
1/32	.03125
3/32	.09375
5/32	.15625
7/32	.21875
9/32	.28125
11/32	.34375
13/32	.40625
15/32	.46875
17/32	.53125
19/32	.59375
21/32	.65625
23/32	.71875
25/32	.78125
27/32	.84375
29/23	.90625
31/32	.96875
64ths	
1/64	.015625
3/64	.046875
5/64	.078125
7/64	.109365
9/64	.140625
11/64	.171875
13/64	.203125
15/64	.234375
17/64	.265625
19/64	.296875
21/64	.328125
23/64	.359375
25/64	.390625
27/64	.421875
29/64	.453125
31/64	.484375
33/64	.515625
35/64	.546875
37/64	.578125
39/64	.609375
41/64	.640625
43/64	.671875
45/64	.703125
47/64	.734375
49/64	.765625
51/64	.796875
53/64	.828125
55/64	.859375
57/64	.890625
59/64	.921875
61/64	.953125
63/64	.984375

Diameters, stranding and ultimate strength of A.C.S.R. and All Aluminum bare cables

Cable Size	A. C. S. R.			ALL ALUMINUM		
	Number of Alum. & Steel Strands	Diameter Inches	Ultimate Strength in Pounds	Diameter Inches	Ultimate Strength in Pounds	Number of Strands
No. 8	6 x 1	.158	745	.....	.....	....
7	6 x 1	.177	935	.....	.....	....
6	6 x 1	.198	1170	.....	.....	....
5	6 x 1	.223	1460	.....	.....	....
4	6 x 1	.250	1830	.232	918	7
4	7 x 1	.257	2288	.....	.....	....
3	6 x 1	.281	2250	.260	1135	7
2	6 x 1	.316	2790	.292	1405	7
2	7 x 1	.325	3535	.....	.....	....
1	6 x 1	.355	3480	.328	1710	7
1/0	6 x 1	.398	4280	.368	2070	7
2/0	6 x 1	.447	5345	.414	2610	7
3/0	6 x 1	.502	6675	.464	3160	7
4/0	6 x 1	.563	8420	.522	3990	7
266800 C.M.	26 x 7	.642	11250	.586	5030	7
266800	6 x 7	.633	9645	.....	.....	....
300000	30 x 7	.700	15430	.629	5890	19
300000	26 x 7	.680	12650	.....	.....	....
336400	30 x 7	.741	17040	.666	6605	19
336400	26 x 7	.721	14050	.....	.....	....
397500	30 x 7	.806	19880	.724	7650	19
397500	26 x 7	.783	16190	.....	.....	....
477000	30 x 7	.883	23300	.793	8990	19
477000	26 x 7	.858	19430	.....	.....	....
500000	30 x 7	.904	24400	.812	9425	19
556500	30 x 7	.953	27200	.856	10490	19
556500	26 x 7	.927	22400	.....	.....	....
605000	26 x 7	.970	24100	.....	.....	....
605000	54 x 7	.953	22500	.....	.....	....
636000	30 x 19	1.019	31500	.918	12490	37
636000	26 x 7	.990	25000	.....	.....	....
636000	54 x 7	.997	23600	.....	.....	....
666600	54 x 7	1.000	24500	.....	.....	....
715500	30 x 19	1.081	34600	.974	14050	37
715500	26 x 7	1.051	28100	.....	.....	....
715500	54 x 7	1.036	26300	.....	.....	....
750000	.....	.....	.....	.997	14430	37
795000	30 x 19	1.140	38400	1.026	15300	37
795000	26 x 7	1.108	31200	.....	.....	....
795000	54 x 7	1.093	28500	.....	.....	....
874500	54 x 7	1.146	31400	1.077	16480	37
900000	54 x 7	1.162	32300	.....	.....	....
954000	54 x 7	1.196	34200	1.124	17980	37
1033500	54 x 7	1.246	37100	1.170	19480	37
1113000	54 x 19	1.293	40200	1.216	21850	61
1192500	54 x 19	1.338	43100	1.250	23400	61
1272000	54 x 19	1.382	44800	1.300	24500	61
1351500	54 x 19	1.424	47600	1.340	26000	61
1431000	54 x 19	1.465	50400	1.379	27000	61
1510500	54 x 19	1.506	53200	.....	.....	....
1515000	.....	.....	.....	1.417	28500	61
1590000	54 x 19	1.545	56000	1.454	30000	61
80000	8 x 1	.367	5200	.....	.....	....
101800	12 x 7	.461	9860	.....	.....	....
110800	12 x 7	.481	10730	.....	.....	....
134600	12 x 7	.530	12920	.....	.....	....
159000	12 x 7	.576	15200	.....	.....	....
176900	12 x 7	.607	16440	.....	.....	....
190800	12 x 7	.631	17730	.....	.....	....
211300	12 x 7	.663	19640	.....	.....	....
203200	16 x 19	.714	27500	.....	.....	....
203000	8 x 7	.584	11140	.....	.....	....

The above information is from data published by Aluminum Company of America. For diameters of weatherproof cables see tables published by the manufacturer.

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GUARANTEE

All Klein and Klein-Buhrke products are guaranteed against defect in material and workmanship under normal use and proper operation.

Any equipment which, on examination, is found to be defective will be replaced without charge, but none will be replaced if it shows evidence of having been tampered with or if it has been improperly used.

KLEIN DISTRIBUTION

To serve users of Klein tools and equipment the company has developed an extensive distribution through wholesalers, safety supply houses and industrial distributors. These distributors stock Klein tools and equipment and are in a position to render prompt service. On items which they do not stock, they will receive prompt delivery from the factory. Order through your local distributor. Writing to the factory will only delay your order.

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